

AD-A018 623

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS.
SIBERIAN COASTAL MARINE AREAS. VOLUME 4. AREA 22 -
ONEKOTAN ISLAND, AREA 23 - ONEKOTAN ISLAND SE,
AREA 24 - SOYA STRAIT W, AREA 25 - SOYA STRAIT E,
AREA 26 - URUP ISLAND, AREA 27 - VLADIVOSTOK,
AREA 28 - SEA OF JAPAN N

Naval Weather Service Command

Prepared for:

National Climatic Center

October 1975

DISTRIBUTED BY:

NTIS

National Technical Information Service
U. S. DEPARTMENT OF COMMERCE

ABSTRACT FOR VOLUME 4

U.S. NAVAL WEATHER SERVICE COMMAND, Summary of Synoptic Meteorological Observations (SSMO) for Siberian Coastal Marine Areas - Volume 4, Area 22-Onekotan Island, Area 23-Onekotan Island SE, Area 24-Soya Strait W, Area 25-Soya Strait E, Area 26-Urup Island, Area 27-Vladivostok, Area 28-Sea of Japan N.

Naval Weather Service Detachment
Federal Building, Asheville, N. C.

October 1975 553 pages

Descriptors: (Air-Sea Interface, Climatology, Coastal Marine Summary Maps and Tables) Percentage Frequency Occurrence of: Precipitation, Thunderstorms, Fog, Wind Speed, Wind Direction, Cloud Cover, Ceilings, Visibility, Relative Humidity, Air Temperature, Air-Sea Temperature Difference, Sea Heights, Wave Heights, Wave Periods, Sea Level Pressure.

Identifiers: Onekotan Island, Soya Strait, Urup Island, Vladivostok, and Sea of Japan N.

The data contained in these tables were obtained from Tape Data Family 11 (TDF-11) Marine Surface Observations. The development and maintenance of TDF-11 was primarily funded by the Naval Weather Service Command. The SSMO series of coastal marine summaries is managed and produced by the Naval Weather Service Detachment, Asheville, N. C.

Reproduced by
**NATIONAL TECHNICAL
INFORMATION SERVICE**
U S Department of Commerce
Springfield VA 22151

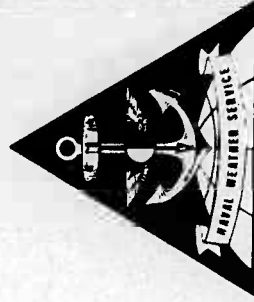


U. S. NAVAL WEATHER SERVICE COMMAND

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS SIBERIAN COASTAL MARINE AREAS

VOLUME 4

AREA 22 - ONEKOTAN ISLAND
AREA 23 - ONEKOTAN ISLAND SE
AREA 24 - SOYA STRAIT W
AREA 25 - SOYA STRAIT E
AREA 26 - URUP ISLAND
AREA 27 - VLADIVOSTOK
AREA 28 - SEA OF JAPAN N



DDC
RECEIVED
DEC 22 1975
D

DISTRIBUTION STATEMENT A

Approved for public release,
Distribution Unlimited

ia

Prepared under the direction of the U.S. Naval Weather Service Command
by the National Climatic Center, Federal Building, Asheville, N.C. 28801.

21

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The data contained in these tables were obtained from tape data Family 11 (TDF-11), Marine Surface Observations. TDF-11 was primarily funded by the Naval Weather Service Command and selected by NWSD Asheville as the most comprehensive collection of marine surface observations from which to develop a series of coastal marine summaries. The source was punched cards of weather observations taken aboard vessels of varying registry. They were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there is no concrete evidence to prove or disprove the validity of questionable data.

THE TABLES

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (*) indicates percentage frequency > 0 and $< .05$. A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH = low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

The geographic position shown on the tables is the central position (centroid) of the observations within the area. This value may fall outside irregular areas.

Also, it should be noted that these data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible, thus biasing our data toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17. No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from selected decks only and the overall period indicates the period of record of this data source. The primary period for these tables is not shown.

Annual values are computed on the basis of the sum of the monthlies divided by the number of months.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19. The series of summaries appear in numerical order by area number.

Table 1 - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

Table 2 - Percentage Frequency of Weather Occurrence by Hour (GMT).

Table 3 - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (8 pts.).

Table 3A - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

Table 4 - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

Table 5 - Percentage Frequency of Total Cloud Amount (Oktas) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

Table 6 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Wind Direction (8 pts.).

Table 7 - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH > 4/8) and Visibility (Nautical Miles).

Table 7A - Percentage Frequency of Low Cloud Amount (or Middle Cloud Amount if Low Clouds are not present) and Percentage Frequency of Sky Obscured. Amounts are in Oktas.

Table 8 - Percentage Frequency of Wind Direction (8 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles).

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

Table 10 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Hour (GMT).

Table 11 - Percentage Frequency of Visibility (Nautical Miles) by Hour (GMT).

Table 12 - Cumulative Percentage Frequency of Ranges of Visibility (Nautical Miles) and Ceiling Height (feet, NH > 4/8) by Hour (GMT).

Table 13 - Percentage Frequency of Relative Humidity (%) by Air Temperature (° F.).

Table 14 - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature (° F.).

Table 15 - Means, Extremes, and Percentiles of Air Temperature (° F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

Table 16 - Percentage Frequency of Relative Humidity (%) by Hour (GMT).

Table 17 - Percentage Frequency of Air Temperature (° F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference (° F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

Table 18 - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized.

Table 19 - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

Tables 1-19 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

Note:

In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

CONTENTS

AREA	NAME	PAGES
22	Onokotan Island	001-079
23	Onokotan Island SE	080-158
24	Soya Strait W	159-237
25	Soya Strait E	238-316
26	Urup Island	317-395
27	Vladivostok	396-474
28	Sea of Japan N	475-553

Table 20 - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature (° F.).

Table 21 - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values and percentile values.

Copies of this document are obtainable from the National Technical Information Service (NTIS), Springfield, Virginia 22151.

DIRECTION AND WEATHER CODES

CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

A reduced bias system was employed in converting wind and wave directions to 8 points. This method attaches weighting values to observations which overlap two different 8 point sectors and treats them as "decimal observation counts." These decimal quantities are rounded to whole numbers for presentation as "observational counts" in the tables. Figures 1-4 below show the 8 point system with other systems superimposed.

Note: Because of rounding, sub-total sums of "observation counts" may not equal grand totals.

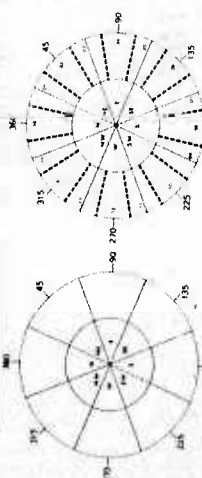


Fig 1 The 8 point direction system.

Fig 2 The 16 point direction system superimposed on the 8 point system.

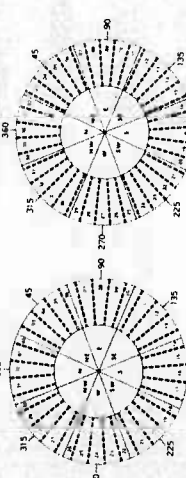


Fig 3 The 32 point direction system superimposed on the 8 point system.

NOTE: < means less than;
> means greater than;
≤ means less than or equal to;
≥ means greater than or equal to.

VISIBILITY (VV)		PRESENT WEATHER (1960 WMO CODE 4677)	
CODE	INTERPRETATION (NAUTICAL MILES)	CODE	INTERPRETATION
90-93	VV<1/2	58-59	RAIN
		60-65	
		91-94	
94	1/2≤VV<1	(68-69, 95, 97 IF TEMP > 40°F)	RAIN SHOWERS
		80-82, (83-84 IF TEMP > 40°F)	
95	1≤VV<2	50-55, 58-59	
96	2≤VV<5	56-57	DRIZZLE
		66-67	
97	5≤VV<10	70-75, 85-86	FREEZING PRECIPITATION
		(68-69, 83-84, 95, 97 IF TEMP ≤ 40°F)	
98	10≤VV<25	76-79	
99	VV≥25	87-90	OTHER FROZEN PRECIPITATION
		93-94	
		96, 99	
		13, 17	HAIL
		19, 29	
		95-99	
		00-03	THUNDER LIGHTNING THUNDERSTORM
		14-16	
		18	
		00-49	NO PRECIPITATION AT OB TIME
		50-99	
		20-27	

NOTE: The following WMO codes were counted in two weather categories. 58-59 (rain and drizzle); 68-69 (rain and snow); 93-94 (rain and hail); 96 and 99 (hail and thunder/lightning/thunderstorm); 95 and 97 (snow and thunder/lightning/thunderstorm), or (rain and thunder/lightning/thunderstorm).

WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤ .25}	<1	12	>5.75 to 6.25}	20-22	30	>14.75 to 15.25	
01	>.25 to .75}	1-2	13	>6.25 to 6.75}		31	>15.25 to 15.75	
02	>.75 to 1.25}	3-4	14	>6.75 to 7.25}	23-25	32	>15.75 to 16.25	49-60
03	>1.25 to 1.75}	5-6	15	>7.25 to 7.75}		33	>16.25 to 16.75	
04	>1.75 to 2.25}	7	16	>7.75 to 8.25}	26-32	34	>16.75 to 17.25	
05	>2.25 to 2.75}	8-9	17	>8.25 to 8.75}		35	>17.25 to 17.75	
06	>2.75 to 3.25}	10-11	18	>8.75 to 9.25}		36	>17.75 to 18.25}	
07	>3.25 to 3.75}	12	19	>9.25 to 9.75}				
08	>3.75 to 4.25}	13-16	20	>9.75 to 10.25}		37	>18.25 to 18.75	
09	>4.25 to 4.75}		21	>10.25 to 10.75}	33-40	38	>18.75 to 19.25	61-70
10	>4.75 to 5.25}	17-19	22	>10.75 to 11.25}		39	>19.25 to 19.75	
11	>5.25 to 5.75}		23	>11.25 to 11.75}		40	>19.75 to 20.25	
			24	>11.75 to 12.25}		41	>20.25 to 20.75	
			25	>12.25 to 12.75}		42	>20.75 to 21.25	
			26	>12.75 to 13.25}				
			27	>13.25 to 13.75}	41-48	43	>21.25 to 21.75	71-86
			28	>13.75 to 14.25}		44	>21.75 to 22.25	
			29	>14.25 to 14.75}		45	>22.25 to 22.75	
						46	>22.75 to 23.25	
						47	>23.25 to 23.75	
						48	>23.75 to 24.25	
						49	>24.25 to 24.75	
						50	>24.75 to 25.25	
						51	>25.25 to 25.75	
						52	>25.75 to 26.25}	
						53-99	>26.25 to 49.75}	≥87
						Indeterminate=INDET		

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1933-1974

JANUARY

AREA 0022 ONEKOTAN ISLAND
49.3N 152.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THUR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.9	27.1	.0	.0	28.1	6.9	.0	4.4	.0	2.2	.0	58.4
NE	.0	.0	.0	.0	26.4	.0	.0	26.4	9.1	.0	.0	.0	.0	.0	64.5
E	.0	.0	2.0	.0	20.3	.0	.0	22.3	12.2	.0	.0	.0	.0	.0	65.5
SE	.0	.0	11.4	.0	2.3	.0	.0	13.6	4.5	.0	18.2	.0	.0	.0	63.6
S	.0	.0	.0	.0	14.1	.0	.0	14.1	9.9	.0	.0	.0	5.6	.0	70.4
SW	.0	.0	.9	.0	35.5	.0	.0	36.4	13.1	.0	.0	.0	.0	.0	50.5
W	.0	.8	.8	.0	30.3	.0	.0	38.0	11.3	.0	3.9	.0	.8	.0	45.9
NW	.9	1.2	.0	.2	32.5	1.9	.0	34.9	11.1	.0	2.8	.0	.5	.9	49.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	28.6	.0	.0	28.6	.0	.0	.0	.0	.0	.0	71.4
TOT PCT	.2	.5	.7	.2	29.0	.5	.0	30.6	9.9	.0	2.8	.0	.9	.2	55.5
TOT OBS:	434														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.0	1.5	.8	.0	29.5	.0	.0	31.1	9.8	.0	.8	.0	.8	1.5	56.1
0600	.8	.0	2.5	.0	28.0	1.7	.0	32.2	8.5	.0	3.4	.0	.0	.0	55.9
1200	.0	.0	.0	.0	24.6	.0	.0	24.6	11.5	.0	5.7	.0	1.6	.0	56.6
1800	1.1	.0	1.1	1.1	32.2	.0	.0	33.6	11.5	.0	2.3	.0	1.1	.0	49.4
TOT PCT TOT OBS:	.4 459	.4	1.1	.2	28.3	.4	.0	30.5	10.2	.0	3.1	.0	.9	.4	54.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD		00	03	06	09	12	15	18	21
N	.0	3.3	10.6	4.1	.4	.0		18.4	17.5		14.1	.0	15.6	.0	23.5	.0	24.6	.0
NE	.0	2.8	7.9	4.3	.3	.0		15.4	18.4		18.9	.0	15.6	.0	16.9	.0	10.2	.0
E	.0	1.9	2.4	1.8	.7	.0		6.8	19.5		4.0	.0	10.2	.0	6.1	.0	8.7	.0
SE	.0	.0	1.5	.5	.4	.0		2.4	22.8		3.3	.0	.5	.0	4.0	.0	1.9	.0
S	.0	.5	.8	.3	.4	.0		2.0	22.7		4.5	.0	.0	.0	1.0	.0	1.5	.0
SW	.3	1.5	1.8	1.1	.5	.3		5.5	20.0		6.8	.0	4.0	.0	6.6	25.0	3.4	25.0
W	.0	1.7	11.5	6.7	2.1	.0		22.0	21.2		18.7	60.0	28.5	83.3	14.4	75.0	22.0	25.0
NW	.3	2.2	13.2	7.5	2.4	.0		25.5	21.0		26.5	40.0	24.5	16.7	25.8	.0	24.6	50.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0		3.0	.0	1.1	.0	1.0	.0	3.0	.0
TOT OBS	9	51	184	97	27	1	369		19.5		99	5	93	3	99	2	66	2
TOT PCT	2.4	13.8	49.9	26.3	7.3	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD		00	03	06	12	18
N	1.5	7.2	7.1	2.4	.2		18.4	17.5		13.5	15.1	23.0	23.9	
NE	.8	6.9	6.2	1.2	.3		15.4	18.4		18.0	15.1	16.6	9.9	
E	.5	3.0	2.0	.5	.7		6.8	19.5		3.8	9.9	5.9	8.5	
SE	.0	.7	1.1	.3	.3		2.4	22.8		3.1	.5	4.0	1.8	
S	.3	.2	.8	.5	.2		2.0	22.7		4.3	.0	1.7	1.5	
SW	.5	1.6	2.0	.9	.4		5.5	20.0		6.5	3.9	6.9	4.0	
W	.3	8.3	8.5	4.1	.9		22.0	21.2		20.7	30.2	13.6	22.1	
NW	.4	8.3	10.8	5.4	.7		25.5	21.0		27.2	24.2	25.2	25.4	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	1.9						1.9	.0		2.9	1.0	1.0	2.9	
TOT OBS	23	134	142	56	14	369		19.5		104	96	101	68	
TOT PCT	6.2	36.3	38.5	15.2	3.8		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1933-1974

JANUARY

TABLE 4

AREA 0022 ONEKOTAN ISLAND
49.3N 152.5E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.9	.0	13.5	47.1	26.9	9.6	.0	20.4	100.0	104
0600	1.0	2.1	10.4	51.0	29.2	6.3	.0	19.1	100.0	96
1200	1.0	.0	16.8	50.5	23.8	6.9	1.0	19.1	100.0	101
1800	2.9	.0	14.7	51.5	25.0	5.9	.0	19.4	100.0	68
TOT	7	2	51	184	97	27	1	19.5		369
PCT	1.9	.5	13.8	49.3	26.3	7.3	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	1.1	1.3	8.2	7.8		6.4
NE	1.0	.7	4.8	9.1		6.9
E	.5	.5	2.6	5.3		6.9
SE	.4	.3	.7	1.0		6.0
S	.0	.3	.2	2.6		7.3
SW	.0	.0	2.4	3.6		7.2
W	.9	.9	8.6	10.0		6.8
NW	.9	1.3	10.4	11.2		6.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.6	.6		7.5
TOT OBS	16	18	131	174	339	6.8
TOT PCT	4.7	5.3	38.6	51.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.8	.0	.2	1.0	4.9	5.2	1.0	.3	.3	.0	3.8	
NE	.8	.0	.9	.9	4.4	4.3	2.4	.0	.0	.0	1.9	
E	.8	.3	.0	1.8	.8	2.6	1.3	.0	.0	.0	1.6	
SE	.3	.0	.0	.0	.7	.4	.0	.0	.0	.0	.7	
S	1.0	.0	.0	.0	.3	.7	.0	.0	.0	.0	1.1	
SW	.7	.0	.1	.3	1.5	1.9	.7	.0	.0	.0	.7	
W	2.2	.0	.7	.6	5.0	6.7	1.6	.0	.8	.0	2.7	
NW	4.4	.0	.7	2.0	3.9	5.8	2.5	.0	.4	.6	3.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.3	.3	.0	.0	.3	.0	
TOT OBS	41	1	9	22	74	94	34	1	5	3	55	339
TOT PCT	12.1	.3	2.7	6.5	21.8	27.7	10.0	.3	1.5	.9	16.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>5000	1.7	2.6	2.6	2.6	2.6	2.6	2.6	2.6
>3500	6.6	11.5	11.8	12.7	12.7	12.7	13.0	13.0
>2000	15.0	29.4	36.6	39.2	40.3	40.6	40.9	40.9
>1000	19.6	40.1	52.4	57.1	59.4	61.4	62.8	62.8
>600	20.2	41.8	58.8	63.4	65.7	68.0	69.7	69.7
>300	20.7	42.9	61.1	66.3	68.9	71.2	72.9	72.9
>150	20.7	42.9	61.1	66.3	69.2	71.5	73.2	73.2
>0	20.7	45.2	65.1	71.8	77.5	82.1	85.0	85.0
TOTAL	72	157	226	249	269	285	295	295

TOTAL NUMBER OF OBS: 347

PCT FREQ NH <5/8: 15.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
1.9	1.0	4.1	2.9	5.6	6.8	10.4	16.0	41.3	10.0	412

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1933-1974

JANUARY

AREA 0022 ONEKOTAN ISLAND
49.3N 152.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.9	.2	.9	.3	.2	.6	1.9	1.7	.0	.0	6.7	
	NO PCP	.6	.1	.2	.2	.2	.0	.0	.2	.0	.0	1.6	
	TOT %	1.5	.3	1.1	.5	.4	.6	1.9	1.9	.0	.0	8.4	
1/2<1	PCP	.7	.2	.5	.0	.2	.3	1.6	1.5	.0	.2	5.1	
	NO PCP	.2	.0	.0	.1	.2	.2	.4	.8	.0	.0	1.9	
	TOT %	.9	.2	.5	.1	.3	.5	2.0	2.2	.0	.2	7.0	
1<2	PCP	.6	1.2	.2	.0	.0	.6	1.7	.8	.0	.2	5.3	
	NO PCP	.0	.2	.0	.0	.3	.1	.0	.2	.0	.0	.9	
	TOT %	.6	1.5	.2	.0	.3	.7	1.7	1.0	.0	.2	6.3	
2<5	PCP	1.7	1.2	.0	.0	.2	.8	1.7	2.4	.0	.0	7.9	
	NO PCP	1.9	1.3	2.6	.4	.6	3.8	1.6	.0	.0	.0	12.8	
	TOT %	3.5	2.4	2.6	.4	.9	4.4	3.3	.0	.0	.0	20.6	
5<10	PCP	1.4	.9	.4	.1	.0	.0	.6	2.0	.0	.0	5.3	
	NO PCP	6.6	3.5	1.3	1.0	1.1	1.9	4.4	5.0	.0	.0	24.8	
	TOT %	7.9	4.4	1.7	1.1	1.1	1.9	5.0	7.1	.0	.0	30.2	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
	NO PCP	3.8	5.2	2.6	.5	.8	1.0	4.0	8.1	.0	1.2	27.1	
	TOT %	3.8	5.2	2.6	.5	.8	1.0	4.0	8.5	.0	1.2	27.6	
TOT OBS													431
TOT PCT		18.4	14.0	8.6	2.6	3.9	6.2	20.0	24.8	.0	1.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.3	.0	.2	.1	.0	.3	.0	.0	.8	
	11-21	.6	.0	.0	.3	.0	.3	.3	.6	.0	.0	2.0	
	22+	.5	.1	.8	.3	.0	.1	1.6	1.1	.0	.0	4.5	
	TOT %	1.0	.1	1.0	.6	.2	.4	1.9	2.0	.0	.0	7.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.6	.3	.0	.0	.0	.0	1.3	.7	.0	.0	2.8	
	22+	.3	.0	.3	.1	.2	.3	.8	1.4	.0	.0	3.4	
	TOT %	.8	.3	.6	.1	.2	.3	2.1	2.1	.0	.3	6.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.6	
	11-21	.0	1.1	.0	.0	.0	.3	1.0	.0	.0	.0	2.5	
	22+	.5	.6	.2	.0	.0	.3	.2	.7	.0	.0	2.5	
	TOT %	.5	1.7	.2	.0	.0	.6	1.5	1.0	.0	.3	5.9	
2<5	0-3	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	4-10	.3	.6	.0	.0	.0	.3	.0	.0	.0	.0	1.1	
	11-21	2.1	.8	.3	.0	.3	.3	3.0	1.8	.0	.0	8.7	
	22+	.7	.9	.0	.3	.0	.3	3.1	2.5	.0	.0	7.8	
	TOT %	3.1	2.3	.3	.3	.3	1.3	6.1	4.3	.0	.0	17.9	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.5	.3	.3	.0	.0	.8	.0	.5	.0	.0	3.4	
	11-21	5.0	2.6	1.0	.7	.0	.6	3.1	3.5	.0	.0	16.5	
	22+	2.4	2.3	.6	.3	.3	.4	2.4	3.0	.0	.0	11.7	
	TOT %	8.9	5.2	1.8	1.0	.3	1.9	5.6	7.0	.0	.0	31.6	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	1.4	1.7	
	4-10	1.4	1.7	.8	.0	.3	.3	1.3	1.2	.0	.0	7.0	
	11-21	2.5	3.4	1.3	.6	.3	.3	2.7	6.1	.0	.0	17.0	
	22+	.3	.9	.8	.0	.2	.6	.9	1.4	.0	.0	5.0	
	TOT %	4.2	5.9	2.9	.6	.8	1.2	4.8	9.0	.0	1.4	30.7	
TOT OBS													358
TOT PCT		18.5	15.5	6.8	2.5	1.7	5.7	22.0	25.3	.0	2.0	100.0	

JANUARY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1933-1974AREA 0022 ONEKOTAN ISLAND
45.3N 152.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	180	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	5.9	.0	1.7	8.5	24.6	27.1	12.7	.0	1.7	2.5	84.7	15.3	118
06009	11.4	.0	6.7	7.6	22.9	26.7	9.5	.0	1.9	.0	86.7	13.3	105
12015	15.5	1.2	1.2	2.4	17.9	29.8	7.1	1.2	.0	.0	76.2	23.8	84
18021	20.0	.0	1.8	7.3	14.5	23.6	9.1	.0	1.8	.0	78.2	21.8	55
TOT	43	1	11	24	76	98	36	1	5	3	298	64	362
PCT	11.9	.3	3.0	6.6	21.0	27.1	9.9	.3	1.4	.8	82.3	17.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	6.9	7.6	6.9	18.3	24.4	35.9	131
06009	7.5	3.3	6.7	26.7	24.2	31.7	120
12015	11.6	10.7	1.7	18.2	36.4	21.5	121
18021	11.5	5.7	9.2	20.7	34.5	18.4	87
TOT	42	32	27	96	135	127	459
PCT	9.2	7.0	5.9	20.9	29.4	27.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150 <50VD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	6.1	16.5	40.9	47.0	12.2	115
06009	10.7	18.4	46.6	40.8	12.6	103
12015	15.6	27.3	44.2	40.3	15.6	77
18021	21.2	32.7	59.6	23.1	17.3	52
TOT	41	76	160	139	48	347
PCT	11.8	21.9	46.1	40.1	13.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
33/39	.0	.0	.0	.0	.0	.0	.0	4.8	2	4.8
30/34	.0	.0	2.4	.0	.0	2.4	9.5	23.8	16	38.1
25/29	.0	.0	.0	.0	.0	4.8	7.1	33.3	19	45.2
20/24	.0	.0	.0	.0	4.8	.0	2.4	.0	3	7.1
15/19	.0	.0	.0	.0	2.4	.0	.0	2.4	2	4.8
TOTAL	0	0	1	0	3	3	8	27	42	100.0
PCT	.0	.0	2.4	.0	7.1	7.1	19.0	64.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.8	.0	.0	.0	2.4	.0	.0	.6	.0	.0
.0	2.4	23.8	2.4	1.8	3.0	2.4	.0	.0	2.4
10.7	.6	2.4	.0	11.9	2.4	1.8	15.5	.0	.0
.0	.0	.0	.0	2.4	.0	2.4	2.4	.0	.0
.0	.0	.0	.0	.0	.0	1.8	3.0	.0	.0
12.5	3.0	26.2	2.4	18.5	5.4	8.3	21.4	.0	2.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	49	45	36	26	11	5	3	25.5	131
06009	40	39	34	25	10	8	7	23.8	121
12015	45	41	34	26	10	7	5	24.5	120
18021	43	42	36	26	10	8	8	24.3	85
TOT	49	41	36	25	10	7	3	24.6	457

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	5.9	11.8	5.9	23.5	52.9	86	17		
06009	.0	.0	.0	33.3	16.7	50.0	87	6		
12015	.0	.0	.0	.0	11.1	88.9	96	9		
18021	.0	.0	10.0	.0	20.0	70.0	93	10		
TOT	0	1	3	3	8	27	90	42		

JANUARY

AREA 0022 ONEKOTAN ISLAND
49.3N 152.5EPERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1933-1974

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	W0 FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	2	.0	.5
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
6	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	2	.0	.5
4	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	1	.0	.2
3	.0	.0	.0	.0	.0	.0	.0	.5	.2	.0	.0	3	.0	.7
2	.0	.0	.0	.0	.0	.0	.0	1.5	.2	.0	.0	7	.0	1.7
1	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	1	.0	.2
0	.0	.0	.0	.0	.0	.0	1.5	1.2	.2	.2	.0	13	.0	3.2
-1	.0	.0	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	8	.2	1.7
-2	.0	.0	.0	.0	.0	.2	2.7	.7	.0	.2	.0	16	.0	4.0
-3	.0	.0	.0	.0	.0	.5	3.0	.2	.2	.0	.0	24	.2	5.7
-4	.0	.0	.0	.0	.0	2.2	2.7	1.0	.0	.0	.0	18	.0	4.5
-5	.0	.0	.0	.0	.0	2.0	2.2	.2	.0	.0	.0	19	.0	4.7
-6	.0	.0	.0	.0	.0	2.7	2.0	.0	.0	.0	.0	46	.2	11.1
-7/-8	.0	.0	.0	.0	1.5	7.4	2.5	.0	.0	.0	.0	48	.5	11.4
-9/-10	.0	.0	.0	.0	2.7	6.9	2.2	.0	.0	.0	.0	55	.5	13.1
-11/-13	.0	.0	.0	.7	8.7	4.0	.2	.0	.0	.0	.0	49	1.2	10.9
-14/-16	.0	.0	1.0	5.4	4.2	1.5	.0	.0	.0	.0	.0	17	.0	4.2
-17/-19	.0	.0	1.2	2.2	.7	.0	.0	.0	.0	.0	.0	25	.0	6.2
-20/-22	.0	1.5	3.0	1.5	.2	.0	.0	.0	.0	.0	.0	22	.0	5.4
-23/-25	.7	4.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	11	.0	2.7
-26/-30	1.2	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	12	.0	3.92
TOTAL	.8	27	25	40	73	111	81	27	8	3	1	404	3.0	97.0
PCT	2.0	6.7	6.2	9.9	18.1	27.5	20.0	6.7	2.0	.7	.2	100.0	3.0	97.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.4	.0	.0	.0	.7	.0	.7	.4	.0	.0	.0	1.1
1-2	.0	.6	2.0	.0	.0	.0	2.6	.0	1.1	.5	.0	.0	.0	1.6
3-4	.0	.0	4.3	.0	.0	.0	4.3	.0	.7	2.5	.0	.0	.0	3.2
5-6	.0	.0	1.8	.4	.0	.0	2.1	.0	.0	3.3	.7	.0	.0	4.0
7	.0	.4	.5	.0	.0	.0	.9	.0	.0	.9	1.2	.0	.0	2.0
8-9	.0	.0	.4	2.0	.0	.0	2.3	.0	.0	.7	.2	.0	.0	.9
10-11	.0	.0	.3	.6	.3	.0	1.2	.0	.0	.0	1.2	.0	.0	1.2
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	.4	.0	.8
13-16	.0	.0	.0	.3	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.6	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	9.6	4.4	.5	.0	15.9	.0	2.5	8.2	5.3	.4	.0	16.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.3	.0	.0	.0	.6	.0	.0	.1	.0	.0	.0	.1
1-2	.0	.7	.0	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.7
3-4	.0	.0	.6	.0	.0	.0	.6	.0	.0	.1	.4	.0	.0	.4
5-6	.0	.0	.7	1.1	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.4	.3	.0	.0	.6	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.4	.4	.0	.7	.0	.0	.0	.0	.4	.0	.4
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.4	.5	.0	2.5
TOT PCT	.0	1.1	2.3	2.3	.6	.0	6.3	.0	.0	1.6	.4	.5	.0	2.5

PERIOD: (OVER-ALL) 1963-1974

JANUARY

AREA 0022 ONEKUTAN ISLAND
49.3N 152.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
1-2	.0	.4	.0	.0	.0	.0		.0	.4	.0	.0	.0	.0	.0		.4
3-4	.0	.0	.4	.0	.0	.0		.0	.4	.4	.0	.0	.0	.0		.7
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.7	.7	.1	.0	.0		1.5
7	.0	.0	.0	.0	.3	.0		.0	.0	.4	.0	.1	.0	.0		.5
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.4	.0	.0	.0	.0		.4
10-11	.0	.0	.4	.4	.0	.0		.0	.0	.4	.0	.1	.0	.0		.4
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.4	.0	.0		.4
23-25	.0	.0	.0	.0	.3	.0		.0	.0	.0	.0	.4	.0	.0		.4
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.0		.1
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	.4	.7	.4	.5	.0		2.0	.4	1.2	2.3	1.1	.7	.4		5.9

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.3	.0	.0	.0	.0		.3	.0	.4	.0	.0	.0	.0		.7	
1-2	.0	.7	2.1	.0	.0	.0		2.8	.0	.4	1.3	.0	.0	.0		1.8	
3-4	.0	.0	2.0	1.2	.0	.0		3.2	.0	.4	2.9	.5	.0	.0		3.8	
5-6	.0	.0	4.5	2.3	.3	.0		7.1	.0	.7	3.9	.9	.0	.0		5.5	
7	.0	.0	1.9	1.8	.0	.0		3.6	.0	.0	1.2	1.8	.0	.0		3.0	
8-9	.0	.0	.4	.4	.0	.0		.7	.0	.0	1.4	.8	.4	.0		2.6	
10-11	.0	.0	.4	.0	.6	.0		1.0	.0	.0	.4	.4	.1	.0		.9	
12	.0	.0	.0	1.0	.0	.0		1.0	.0	.0	.4	1.9	.7	.0		2.9	
13-16	.0	.0	.4	1.4	.7	.0		2.5	.0	.0	1.9	1.8	.0	.0		3.6	
17-19	.0	.0	.0	.0	.3	.0		.3	.0	.0	.0	.4	.1	.0		.5	
20-22	.0	.0	.0	.0	.3	.0		.3	.0	.0	.0	.4	.1	.0		.5	
23-25	.0	.0	.0	.0	.4	.0		.4	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.3	.0		.3	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	1.0	11.5	8.1	2.7	.0		23.3	.0	1.9	12.0	9.0	3.1	.0		25.9	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	1.8	2.8	1.4	.0	.0	.0	6.0	
1-2	.4	3.9	.0	.0	.0	.0	11.0	
3-4	.0	1.4	13.1	2.1	.0	.0	18.7	
5-6	.0	.7	14.9	6.0	.4	.0	22.0	
7	.0	.4	6.0	5.0	.4	.0	11.7	
8-9	.0	.0	3.2	3.9	.4	.0	7.4	
10-11	.0	.0	2.1	2.5	1.1	.0	5.7	
12	.0	.0	.4	5.0	1.1	.0	6.4	
13-16	.0	.0	.4	3.9	3.9	.0	8.2	
17-19	.0	.0	.0	1.1	.4	.4	1.8	
20-22	.0	.0	.0	1.1	.4	.0	1.4	
23-25	.0	.0	.0	.0	1.1	.0	1.1	
26-32	.0	.0	.0	.4	.4	.0	.7	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.1	9.2	48.2	30.9	9.2	.4	100.0	282

PERIOD: (OVER-ALL) 1962-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	3.1	6.0	7.0	3.6	.7	1.7	.2	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97
6-7	.0	1.2	.2	4.3	6.0	2.4	3.8	1.4	1.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	89
8-9	.0	.0	.2	1.7	1.0	2.6	2.2	2.2	2.6	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	56
10-11	.0	.0	.0	.5	.0	1.0	1.2	1.0	1.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	23
12-13	.0	.0	.2	.2	.5	1.2	.7	.2	1.0	.5	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	21
>13	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	4
INDET	1.2	2.4	6.5	6.5	3.6	1.7	2.4	1.7	3.1	.5	.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	127
TOTAL	5	28	55	84	41	42	50	28	42	9	5	5	2	1	0	0	0	0	0	0	417
PCT	1.2	6.7	13.2	20.1	14.6	10.1	12.0	6.7	10.1	2.2	1.2	1.2	.5	.2	.0	.0	.0	.0	.0	.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1939-1974

AREA 0022 ONEKOTAN ISLAND
49.5N 153.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	42.9	.0	.0	42.9	2.2	.0	3.3	.0	1.6	.0	50.0
NE	.0	.0	.0	.0	34.3	.0	.0	34.3	11.1	.0	3.7	.0	.9	.0	50.0
E	.0	.0	.0	.0	12.5	.0	.0	12.5	.0	.0	.0	.0	.0	.0	57.5
SE	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	12.9	.0	.0	.0	53.9
S	.0	.0	.0	.0	18.5	.0	.0	18.5	5.6	.0	13.0	.0	.0	.0	53.0
SW	.0	.0	.0	.0	25.0	.0	4.5	29.5	9.1	.0	1.1	4.5	.0	.0	55.7
W	.0	.0	.0	1.6	37.9	.0	.0	39.5	9.7	.0	4.6	.0	.0	.0	46.0
NW	1.6	.9	.9	.0	36.3	.0	.0	39.1	9.2	.0	2.3	.0	.0	2.8	46.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.6	.3	.3	.3	32.9	.0	.3	34.5	7.3	.0	3.5	.3	.3	1.0	53.0
TOT OBS:	313														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	1.9	.0	.0	.0	35.2	.0	.0	37.1	8.6	.0	4.8	.0	.0	.0	49.5
0600	.0	.0	.0	.0	27.5	.0	1.1	28.6	8.8	.0	5.5	1.1	.0	1.1	54.9
1200	1.2	1.2	1.2	1.2	35.7	.0	.0	39.3	3.6	.0	1.2	.0	.0	2.4	53.6
1800	.0	.0	.0	.0	33.8	.0	.0	33.8	5.9	.0	2.9	.0	1.5	.0	55.9
TOT PCT	.9	.3	.3	.3	33.0	.0	.3	34.8	6.9	.0	3.7	.3	.3	.9	53.2
TOT OBS:	348														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	3.7	5.5	3.5	.8	.0		13.6	18.0		11.8	100.0	9.4	.0	21.0	33.3	10.3	.0
NE	.0	2.1	4.6	2.2	.1	.0		9.3	16.7		8.2	.0	10.1	.0	12.5	.0	6.6	.0
E	.4	1.2	1.5	2.3	.3	.0		6.1	19.5		5.0	.0	9.1	.0	1.8	.0	11.0	.0
SE	.0	1.8	.7	1.0	.0	.0		3.5	14.8		6.4	.0	2.5	.0	3.6	.0	.0	.0
S	.0	1.2	1.4	.4	.4	.0		3.5	16.3		6.8	.0	1.4	.0	1.8	.0	4.4	.0
SW	.8	2.4	1.9	2.2	.0	.0		7.4	15.4		7.5	.0	10.5	.0	6.3	.0	4.4	.0
W	.0	2.5	7.7	6.6	3.0	.0		19.8	22.7		26.1	.0	9.8	.0	23.2	.0	25.7	.0
NW	.0	4.1	14.4	13.6	3.8	.0		35.9	21.6		26.8	.0	47.1	100.0	28.1	66.7	37.5	100.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0		1.4	.0	.0	.0	1.8	.0	.0	.0
TOT OBS	5	45	91	75	20	0	236		19.7		70	1	69	2	56	3	34	1
TOT PCT	2.1	19.1	38.8	31.8	8.5	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.8	5.2	4.0	2.5	.0		13.6	18.0	13.0	9.2	21.0	10.0
NE	1.1	4.0	3.6	.6	.0		9.3	16.7	8.1	9.9	11.9	6.4
E	.7	1.9	2.0	1.5	.0		6.1	19.5	4.9	8.8	1.7	10.7
SE	.5	2.0	.5	.4	.0		3.5	14.8	6.3	2.5	3.4	.0
S	.8	1.0	1.3	.4	.0		3.5	16.3	6.7	1.4	1.7	4.3
SW	1.8	2.5	1.8	1.3	.0		7.4	15.4	7.4	10.2	5.9	4.3
W	1.5	3.7	8.6	4.6	1.5		19.8	22.7	25.7	9.5	22.0	25.0
NW	.6	11.9	14.2	9.0	.2		35.9	21.6	26.4	48.6	30.1	39.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8	.0	1.4	.0	1.7	.0
TOT OBS	23	76	85	48	4	236		19.7	71	71	59	35
TOT PCT	9.7	32.2	36.0	20.3	1.7		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1939-1974

FEBRUARY

AREA 0022 ONEKOTAN ISLAND
49.5N 153.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	1.4	2.8	21.1	39.4	26.8	8.5	.0	19.0	100.0	71
06009	.0	.0	15.5	31.0	42.3	11.3	.0	22.0	100.0	71
12015	1.7	.0	22.0	45.8	25.4	5.1	.0	17.7	100.0	59
18021	.0	2.9	17.1	40.0	31.4	8.6	.0	19.6	100.0	35
TOT	2	3	45	91	75	20	0	19.7		236
PCT	.8	1.3	19.1	38.6	31.8	8.5	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	1.6	7.0	6.9		6.5
NR	.2	1.7	2.1	4.3		6.5
E	.0	1.8	2.7	3.6		6.3
SE	.4	.1	1.2	1.4		6.4
S	.0	.7	2.0	1.7		6.2
SW	.4	.2	4.7	1.8		6.2
W	.7	2.1	6.5	9.2		6.5
NW	.9	2.5	17.1	13.8		6.5
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.0	.0		2.0
TOT OBS	9	27	111	109	256	6.5
TOT PCT	3.5	10.5	43.4	42.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.7	.0	.8	1.2	3.2	4.6	.8	.3	.4	.6	3.6	
1.2	.0	.0	.0	2.3	1.5	.0	.6	.0	.1	2.6	
.4	.0	.0	.4	1.4	3.2	.3	.3	.0	.0	2.1	
.0	.0	.0	.0	1.0	1.5	.1	.0	.0	.0	.5	
.3	.0	.0	.0	1.7	1.7	.0	.0	.0	.0	.7	
.9	.0	.1	.4	2.5	1.0	.4	.0	.0	.0	1.8	
3.2	.0	.9	1.2	11.0	9.2	2.0	1.5	.0	.0	4.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
22	0	7	9	72	66	13	10	1	2	34	256
8.6	.0	2.7	3.5	28.1	25.8	5.1	3.9	.4	.8	21.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NH) OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.0	.8	1.1	1.1	1.1	1.1	1.1	1.1
OR >5000	.8	3.8	5.3	5.3	5.3	5.3	5.3	5.3
OR >3500	2.6	7.5	10.2	10.9	10.9	10.9	10.9	10.9
OR >2000	10.9	20.7	30.5	32.0	34.2	35.0	35.3	35.3
OR >1000	15.4	32.7	47.7	53.4	58.6	60.5	62.4	62.8
OR >600	16.2	33.8	50.0	56.8	62.0	64.3	66.2	66.5
OR >300	16.2	34.2	50.8	58.3	63.9	66.5	68.4	68.8
OR >150	16.2	34.2	50.8	58.3	63.9	66.5	68.4	68.8
OR >0	16.5	35.0	52.3	62.2	69.9	75.6	78.6	78.9
TOTAL	44	93	139	168	186	201	209	210

TOTAL NUMBER OF OBS: 266

PCT FREQ NH <5/8: 21.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
2.2	1.6	3.4	4.1	9.4	6.9	15.6	12.8	35.6	8.4	320

FEBRUARY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1939-1974AREA 0022 ONEKOTAN ISLAND
49.5N 153.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.6	.6	.3	.0	.6	.4	1.6	3.3	.0	.0	7.4	
	NO PCP	.0	.0	.0	.0	.0	.3	1.0	.6	.0	.0	1.9	
	TOT %	.6	.6	.3	.0	.6	.7	2.6	3.9	.0	.0	9.3	
1/2<1	PCP	.6	.6	.0	.0	.2	.1	1.8	.6	.0	.0	4.2	
	NO PCP	1.0	.3	.6	.0	.2	.1	.2	.7	.0	.0	3.2	
	TOT %	1.7	1.0	.6	.0	.5	.2	.0	1.5	.0	.0	7.4	
1<2	PCP	1.7	1.0	.6	.0	.0	1.0	.6	3.5	.0	.0	8.4	
	NO PCP	.6	.5	.8	.0	.2	.1	.6	1.4	.0	.0	4.2	
	TOT %	2.3	1.4	1.4	.0	.2	1.0	1.1	4.9	.0	.0	12.5	
2<5	PCP	3.1	.7	.0	.0	.0	.0	1.6	3.9	.0	.0	9.3	
	NO PCP	2.8	.8	.9	.3	.0	.3	2.7	5.0	.0	.0	12.9	
	TOT %	5.9	1.5	.9	.3	.0	.3	4.3	8.8	.0	.0	22.2	
5<10	PCP	.0	.0	.0	.3	.0	.6	2.0	1.5	.0	.0	4.5	
	NO PCP	1.8	2.4	1.8	.6	1.7	1.2	4.3	6.5	.0	.0	20.3	
	TOT %	1.8	2.4	1.8	.9	1.7	1.8	6.4	8.0	.0	.0	24.8	
10+	PCP	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.6	
	NO PCP	2.2	1.4	2.7	1.6	1.4	3.0	3.2	7.1	.0	.6	23.2	
	TOT %	2.2	1.7	2.7	1.6	1.4	3.0	3.5	7.1	.0	.6	23.8	
TOT OBS													3.1
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	11-21	.3	.9	.0	.0	.0	.4	.4	1.0	.0	.0	3.1	
	22+	.0	.0	.4	.0	.4	.0	2.2	3.5	.0	.0	6.6	
	TOT %	.3	.9	.4	.0	.4	.9	2.6	4.5	.0	.0	10.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.9	
	11-21	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.9	
	22+	.0	.4	.0	.0	.0	.0	1.9	1.2	.0	.0	3.5	
	TOT %	.4	.9	.0	.0	.0	.0	2.3	1.7	.0	.0	5.3	
1<2	0-3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	4-10	.0	.4	.0	.0	.0	.0	.0	.9	.0	.0	1.3	
	11-21	1.2	1.3	.0	.0	.0	.0	.0	2.3	.0	.0	4.8	
	22+	.3	.0	.4	.0	.0	.4	.3	1.5	.0	.0	3.1	
	TOT %	1.5	1.8	.4	.0	.0	.9	.3	4.7	.0	.0	9.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.7	.6	.0	.0	.0	.0	.0	.9	.0	.0	3.1	
	11-21	1.9	.9	.4	.0	.0	.0	2.4	3.6	.0	.0	9.3	
	22+	3.4	.4	.0	.4	.0	.4	1.2	5.1	.0	.0	11.0	
	TOT %	6.9	1.9	.4	.4	.0	.4	3.6	9.6	.0	.0	23.3	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.4	.0	.4	.4	.6	1.2	.0	.0	.0	3.1	
	11-21	.4	.9	.9	.1	.8	.0	2.9	5.1	.0	.0	11.0	
	22+	.3	.4	.4	.4	.4	1.4	3.4	3.2	.0	.0	10.1	
	TOT %	.8	1.8	1.3	1.0	1.7	2.0	7.5	8.3	.0	.0	24.2	
10+	0-3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.9	1.3	
	4-10	1.9	.2	1.2	1.4	.8	1.5	1.1	2.0	.0	.0	10.1	
	11-21	.7	1.0	.7	.7	.8	1.5	1.9	2.1	.0	.0	9.3	
	22+	.0	.7	1.4	.1	.0	.0	.9	3.5	.0	.0	6.6	
	TOT %	2.5	1.9	3.7	2.2	1.5	3.1	3.9	7.6	.0	.9	27.3	
TOT OBS													227
TOT PCT													100.0

FEBRUARY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1939-1974

AREA 0022 ONEKOTAN ISLAND
49.5N 153.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	3.4	.0	4.5	1.1	27.3	31.8	8.0	3.4	.0	1.1	80.7	19.3	88
06009	9.1	.0	1.3	3.9	32.5	23.4	6.5	.0	1.3	.0	77.9	22.1	77
12015	13.8	.0	3.1	3.1	21.5	23.1	4.6	.0	.0	1.5	70.8	29.2	65
18021	15.7	.0	.0	7.8	21.6	13.7	.0	15.7	.0	.0	74.5	25.5	51
TOT	27	0	7	10	74	68	15	11	1	2	215	66	281
PCT	9.6	.0	2.5	3.6	26.3	24.2	5.3	3.9	.4	.7	76.5	23.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	11.7	6.8	12.6	20.4	23.3	25.2	103
06009	7.6	7.6	10.9	23.9	25.0	25.0	92
12015	10.7	10.7	13.1	22.6	22.6	20.2	84
18021	12.7	5.6	14.1	18.3	28.2	21.1	71
TOT	37	27	44	75	86	81	350
PCT	10.6	7.7	12.6	21.4	24.6	23.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ANDS+	NH <5/8 AND 5+	TOTAL OBS
00003	5.0	20.0	48.8	38.8	12.5	80
06009	9.3	18.7	49.3	37.3	13.3	75
12015	14.5	30.6	56.5	24.2	19.4	62
18021	16.3	24.5	53.1	26.5	20.4	49
TOT	28	61	137	87	42	266
PCT	10.5	22.9	51.5	32.7	15.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.0	.0	.0	.0	2.0	.0	1	2.0
30/34	.0	.0	.0	.0	.0	.0	2.0	15.7	9	17.6
25/29	.0	.0	.0	.0	3.9	2.0	5.9	5.9	9	17.6
20/24	.0	.0	.0	.0	.0	5.9	13.7	13.7	17	33.3
15/19	.0	.0	.0	.0	.0	2.0	5.9	15.7	12	23.5
10/14	.0	.0	.0	.0	.0	.0	3.9	2.0	3	5.9
TOTAL	0	0	0	0	2	5	17	27	51	100.0
PCT	.0	.0	.0	.0	3.9	9.8	33.3	52.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
35/39	.0	.0	1.5	.5	.0	.0	.0	.0	.0	.0
30/34	.0	2.0	11.8	.0	1.5	.5	.0	2.0	.0	.0
25/29	6.4	2.0	3.4	.0	.0	2.0	.0	3.9	.0	.0
20/24	3.9	2.0	.0	.0	4.4	1.5	5.9	15.7	.0	.0
15/19	9.3	2.5	.0	.0	1.5	.5	5.9	3.9	.0	.0
10/14	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	25.5	8.3	16.7	.5	7.4	4.4	11.8	25.5	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	45	37	35	23	10	3	3	22.4	104
06009	46	44	36	22	10	5	5	23.0	88
12015	36	35	33	21	9	2	2	20.4	84
18021	41	40	32	18	9	2	2	19.2	67
TOT	46	41	34	22	9	3	2	21.5	343

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	5.9	23.5	29.4	41.2	87	17		
06009	.0	.0	9.1	9.1	18.2	63.6	91	11		
12015	.0	.0	.0	.0	36.4	63.6	92	11		
18021	.0	.0	.0	.0	53.8	46.2	91	13		
TOT	0	0	2	5	18	27	90	52		

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1939-1974

FEBRUARY

AREA 0022 ONEKOTAN ISLAND
49.5N 153.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
5	.0	.0	.0	.0	.0	.0	.0	.0	.7	.3	.0	3	.0	1.0
4	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	2	.0	.7
3	.0	.0	.0	.0	.0	.0	.0	.7	.0	.3	.0	3	.0	1.0
2	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	2	.0	.7
1	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.3	6	.0	2.0
0	.0	.0	.0	.0	.0	.0	.7	2.0	.3	.0	.0	7	.0	2.4
-1	.0	.0	.0	.0	.0	.3	3.1	.7	.0	.3	.0	13	.0	4.4
-2	.0	.0	.0	.0	.0	1.0	1.4	.3	.0	.0	.0	8	.0	2.7
-3	.0	.0	.0	.0	.0	1.7	2.0	.3	.0	.0	.0	12	.3	3.8
-4	.0	.0	.0	.0	.0	.3	3.1	.7	.0	.0	.0	12	.0	4.1
-5	.0	.0	.0	.0	.7	4.1	1.0	.0	.0	.0	.0	17	.0	5.8
-6	.0	.0	.0	.0	1.4	6.1	1.7	.0	.0	.0	.0	27	.0	9.2
-7/-8	.0	.0	.0	.0	.3	5.5	2.0	.3	.0	.0	.0	24	.0	8.2
-9/-10	.0	.0	.3	3.4	7.8	1.0	.0	.0	.0	.0	.0	37	1.0	11.6
-11/-13	.0	.0	.7	5.8	1.4	.0	.0	.0	.0	.0	.0	53	.3	17.7
-14/-16	.0	.0	5.5	9.9	2.7	.0	.0	.0	.0	.0	.0	27	.3	8.9
-17/-19	.0	.7	2.4	.3	.3	.0	.0	.0	.0	.0	.0	23	.7	7.2
-20/-22	.0	5.1	2.0	.7	.0	.0	.0	.0	.0	.0	.0	10	.3	3.1
-23/-25	.3	2.4	.3	.3	.0	.0	.0	.0	.0	.0	.0	7	.0	2.4
-26/-30	1.4	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	2.4
TOTAL	5	27	41	47	58	57	38	14	2	3	1	293	9	284
PCT	1.7	9.2	14.0	16.0	19.8	19.5	13.0	4.8	.7	1.0	.3	100.0	3.1	96.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.7	.0	.0	.0	.0	.7
1-2	.0	1.0	1.6	.0	.0	.0	2.6	.0	.7	.6	.0	.0	.0	1.3
3-4	.0	1.0	1.6	1.0	.0	.0	3.6	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.6	.9	.0	.0	1.4	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	1.1	1.8	.0	.0	3.0
8-9	.0	.0	1.4	.0	.6	.0	2.0	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	.4	1.0	.0	.0	1.4	.0	.0	.1	.6	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.1	.0	.7
13-16	.0	.0	.0	.4	.6	.0	1.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	6.0	3.8	1.1	.0	13.4	.0	1.6	4.7	3.0	.1	.0	9.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.9	.4	.0	.0	1.3	.0	.0	.3	.1	.0	.0	.4
5-6	.0	.0	.0	.6	.0	.0	.6	.0	1.1	.0	.0	.0	.0	1.1
7	.0	.0	.6	1.6	.0	.0	2.1	.0	.0	.1	.6	.0	.0	.7
8-9	.0	.0	.6	.6	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	.0	2.0	3.1	.4	.0	6.1	.0	1.1	.4	1.3	.0	.0	2.8

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY

AREA 0022 ONEKOTAN ISLAND
49.5N 153.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.0	.6	.0	.0	.0	.0	.6	.6	.3	.0	.0	.0	.0	.9	
1-2	.0	.4	.0	.0	.0	.0	.4	.6	1.8	.0	.0	.0	.0	2.4	
3-4	.0	.0	.4	.0	.0	.0	.4	.0	.0	1.4	.0	.0	.0	1.4	
5-6	.0	.0	.6	.0	.6	.0	1.1	.0	.0	.0	.6	.0	.0	.6	
7	.0	.0	.4	.0	.0	.0	.4	.0	.6	.0	1.1	.0	.0	1.7	
8-9	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	1.1	.0	.0	1.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.0	2.0	.6	.6	.0	4.1	1.1	2.7	1.4	2.8	.0	.0	8.1	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	.6	1.1	.0	.0	.0	1.7	
1-2	.0	1.0	.4	.0	.0	.0	1.4	.0	1.3	3.7	.0	.0	.0	5.0	
3-4	.0	.0	3.6	1.0	.0	.0	4.5	.0	.6	2.7	2.0	.0	.0	5.3	
5-6	.0	.0	1.0	1.0	.0	.0	2.0	.0	.0	1.8	2.7	1.1	.0	5.7	
7	.0	.0	3.3	1.6	.0	.0	4.8	.0	.0	3.1	1.3	.0	.0	4.4	
8-9	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	1.4	1.8	.0	.0	3.3	
10-11	.0	.0	.0	1.1	.4	.0	1.6	.0	.0	.6	1.8	.7	.0	3.1	
12	.0	.0	.0	.6	.4	.0	1.0	.0	.0	.6	1.7	.1	.0	2.4	
13-16	.0	.0	.6	1.1	.4	.0	2.1	.0	.0	.6	1.3	.7	.0	2.6	
17-19	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	1.1	.0	1.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.8	8.8	7.4	2.8	.0	20.9	.0	2.4	15.6	12.6	4.0	.0	34.7	99.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	1.7	3.6	1.1	.0	.0	.0	6.3	
1-2	.6	6.3	6.3	.0	.0	.0	13.1	
3-4	.0	1.7	10.8	4.5	.0	.0	17.0	
5-6	.0	1.1	5.7	5.7	1.7	.0	14.2	
7	.0	.6	9.1	8.0	.0	.0	17.6	
8-9	.0	.0	5.1	3.4	.6	.0	9.1	
10-11	.0	.0	1.1	6.8	1.1	.0	9.1	
12	.0	.0	.6	2.8	1.1	.0	4.5	
13-16	.0	.0	1.1	2.8	1.7	.0	5.7	
17-19	.0	.0	.0	.6	.6	.0	1.1	
20-22	.0	.0	.0	.0	2.3	.0	2.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.3	13.1	40.9	34.7	9.1	.0	100.0	176

PERIOD: (OVER-ALL) 1961-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	4.3	10.1	6.9	4.3	1.1	1.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	5
6-7	.0	.4	2.9	4.0	7.6	2.2	4.0	.4	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	8
8-9	.0	.0	.4	1.1	1.8	1.8	3.6	1.4	1.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	9
10-11	.0	.0	.0	.0	.0	.7	.4	.7	1.8	1.8	1.4	.0	.0	.0	.0	.0	.0	.0	.0	19	15
12-13	.0	.0	.4	.0	.7	.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
>13	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	3	19
INDEF	2.5	2.5	3.6	1.8	4.0	2.2	1.8	1.8	2.2	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	66	7
TOTAL	8	20	48	38	91	24	32	15	22	11	7	1	0	0	0	0	0	0	0	277	7
PCT	2.9	7.2	17.3	13.7	18.4	8.7	11.6	5.4	7.9	4.0	2.5	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1903-1974

MARCH

TABLE 1

AREA 0022 ONEKOTAN ISLAND
49.4N 153.4E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE																OTHER WEATHER PHENOMENA				
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA					
N	.0	.0	1.3	.0	34.2	.0	.0	35.5	.0	.0	2.6	1.3	.0	3.5	57.0					
NE	.0	.0	.5	.0	22.2	.0	.0	22.7	8.8	.0	.0	.0	.0	.0	68.0					
E	.0	.0	.0	.0	36.0	.0	.0	36.0	12.0	.0	.0	.0	3.2	.0	48.8					
SE	.0	.0	4.6	.0	18.4	.0	.0	23.0	.0	.0	1.1	.0	.0	.0	75.9					
S	3.1	.0	.0	.0	19.1	.0	.0	19.1	6.1	.0	7.6	.0	.0	.0	67.2					
SW	.0	.0	.0	.0	16.5	.0	.0	16.5	.0	.0	3.8	.0	.0	.0	78.9					
W	.0	.0	.0	1.3	23.0	.0	.0	24.3	4.7	.0	.0	.0	.0	.0	70.0					
NW	.0	.0	.9	.0	21.4	.9	.9	24.1	6.3	.0	3.1	.0	.9	.0	65.6					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	.0	.0	.0	.0	28.6	.0	.0	28.6	.0	.0	.0	.0	.0	.0	71.4					
TOT PCT	.2	.0	.7	.2	24.0	.2	.2	25.4	4.9	.0	2.1	.2	.5	.7	66.1					
TOT OBS:	425																			

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE															OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA				
00003	.0	.0	.0	.0	17.4	.0	.9	18.3	6.1	.0	3.5	.0	.0	.9	71.3				
06009	.0	.0	.0	.0	26.7	.0	.0	26.7	6.9	.0	.0	.0	1.0	1.0	64.4				
12015	.0	.0	2.2	.0	24.1	.7	.0	27.0	5.8	.0	2.2	.7	.0	.0	64.2				
18021	1.1	.0	.0	1.1	29.8	.0	.0	30.9	1.1	.0	4.3	.0	1.1	1.1	61.7				
TOT PCT	.2	.0	.7	.2	24.2	.2	.2	25.5	5.1	.0	2.5	.2	.4	.7	65.5				
TOT OBS:	447																		

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.0	2.3	6.5	4.1	.5	.0		13.4	18.4		14.3	21.9	10.2	.0	15.0	.0	14.6	.0
NE	.0	3.4	5.1	2.3	1.0	.0		11.7	17.4		8.5	12.5	14.2	.0	10.5	40.0	12.1	25.0
E	.3	1.3	1.7	3.2	.7	.0		7.1	21.0		7.0	.0	9.6	.0	8.6	.0	3.9	.0
SE	.1	.9	2.4	1.9	.9	.0		6.1	21.3		7.9	.0	9.6	.0	3.9	.0	5.0	.0
S	.2	1.6	3.2	1.2	.4	.0		6.7	17.5		4.9	.0	5.4	.0	6.4	20.0	11.4	.0
SW	.6	1.3	3.4	1.6	1.0	.0		7.8	18.3		5.8	.0	7.5	50.0	7.5	20.0	10.4	.0
W	.7	5.8	6.0	4.7	1.6	.0		18.8	17.6		24.4	25.0	16.6	.0	14.1	.0	21.4	50.0
NW	.6	3.7	13.5	8.0	.8	.0		26.6	18.8		27.1	40.6	26.8	50.0	31.4	20.0	16.8	25.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	15	74	152	98	25	0	364	1.6	18.2		82	8	83	2	110	5	70	4
TOT PCT	4.1	20.3	41.8	26.9	6.9	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00	06	12	18
									03	09	15	21
N	.8	5.2	5.6	1.8	.0		13.4	18.4	15.0	10.0	14.3	13.9
NE	.9	5.2	4.4	.9	.3		11.7	17.4	8.9	13.8	11.7	12.8
E	1.6	.5	3.0	1.9	.2		7.1	21.0	6.4	9.4	8.3	3.7
SE	.7	1.2	2.8	1.2	.3		6.1	21.3	7.2	9.4	3.7	4.7
S	.9	1.7	3.7	.4	.0		6.7	17.5	4.4	5.3	7.0	10.8
SW	1.4	2.5	2.5	.8	.5		7.8	18.3	5.3	8.5	8.0	9.8
W	3.0	5.8	7.0	2.7	.2		18.8	17.6	24.4	16.2	13.5	23.0
NW	1.2	10.2	11.1	3.8	.3		26.6	18.8	28.3	27.4	30.9	17.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						.0	.0	.0	.0	.0	.0
TOT OBS	44	118	146	49	7	364	1.6	18.2	90	85	115	74
TOT PCT	12.1	32.4	40.1	13.5	1.9		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1903-1974

MARCH

TABLE 4

AREA 0022 ONEKOTAN ISLAND
49.4N 153.4E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+*	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.0	2.2	25.6	36.7	28.9	6.7	.0	18.3	100.0	90
06009	.0	3.5	10.6	49.4	28.2	8.2	.0	19.7	100.0	85
12015	2.6	2.6	20.9	40.9	26.1	7.0	.0	18.0	100.0	115
18021	4.1	1.4	24.3	40.5	24.3	5.4	.0	16.7	100.0	74
TOT	6	9	74	192	98	25	0	18.2		364
PCT	1.6	2.5	20.3	41.8	26.9	6.9	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	1.0	6.4	7.1		6.7
NE	1.0	1.5	3.4	3.2		5.8
E	.2	.0	1.8	3.3		7.2
SE	.0	.1	2.3	3.3		7.1
S	1.0	1.0	2.6	4.0		6.1
SW	2.0	.9	1.2	2.3		5.0
W	4.0	3.3	6.3	6.3		5.3
NW	2.4	1.6	12.8	11.4		6.2
VAR	.0	.0	.0	.0		.0
CALM	.3	.0	.6	.9		6.6
TOT OBS	39	32	128	143	342	6.1
TOT PCT	11.4	9.4	37.4	41.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.5	.0	1.2	.3	3.9	5.4	.3	.0	.0	.0	2.3	
NE	.7	.0	.1	.0	1.2	3.3	.6	.1	.0	.0	3.2	
E	.8	.0	.0	.0	1.2	1.3	.8	.5	.0	.0	.4	
SE	.4	.3	.0	.1	1.0	2.5	.4	.3	.0	.0	.7	
S	1.3	.3	.2	2.5	1.8	.3	.0	.0	.0	.0	1.9	
SW	.7	.0	.0	.0	.7	1.5	.0	.0	.0	.0	3.6	
W	1.0	.0	.0	1.4	4.0	3.8	.7	.0	.0	.0	8.6	
NW	2.0	.3	.7	1.5	6.9	10.5	1.0	.0	.3	.0	5.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.6	.0	.0	.0	.3	.3	.3	.0	.0	.0	.3	
TOT OBS	31	3	8	12	74	104	15	3	1	2	89	342
TOT PCT	9.1	.9	2.3	3.5	21.6	30.4	4.4	.9	.3	.6	25.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)	
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>0	>0
>4500	.6	.8	.8	.8	.8	.8	.8	.8	.8	.8
>3000	1.1	1.4	1.4	1.4	1.4	1.4	1.7	1.7	1.7	1.7
>2500	4.2	5.0	5.9	5.9	6.2	6.2	6.4	6.4	6.4	6.4
>2000	16.8	27.7	30.8	31.9	34.2	35.0	35.9	35.9	35.9	35.9
>1000	24.1	41.7	49.3	51.5	54.1	55.5	56.9	56.9	56.9	56.9
>600	24.9	44.0	52.7	55.2	58.3	59.7	61.1	61.1	61.1	61.1
>300	25.5	45.1	54.3	56.9	60.2	61.6	63.3	63.3	63.3	63.3
>150	25.5	45.1	55.2	57.7	61.1	62.5	64.1	64.1	64.1	64.1
>0	25.5	46.5	58.5	61.3	68.1	70.9	74.2	74.2	74.2	74.2
TOTAL	91	166	209	219	243	253	265	265	265	265

TOTAL NUMBER OF OBS: 357

PCT FREQ NH <5/8: 25.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.1	2.7	6.8	3.6	6.8	7.0	13.6	12.6	34.9	8.0	413

PERIOD: (PRIMARY) 1969-1974
(OVER-ALL) 1969-1974

MARCH

AREA 0022 ONEKOTAN ISLAND
49.4N 153.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.9	.6	.7	.0	.2	.5	.9	.8	.0	.5	5.1	
	NO PCP	.2	.0	.2	.0	.0	.2	.0	.3	.0	.0	.9	
	TOT %	1.1	.6	.9	.0	.2	.7	.9	1.1	.0	.5	6.1	
1/2<1	PCP	.2	.2	.6	.5	.2	.5	.6	1.8	.0	.0	4.7	
	NO PCP	.5	.0	.0	.0	.5	.0	.2	.0	.0	.0	1.2	
	TOT %	.8	.2	.6	.5	.7	.5	.9	1.8	.0	.0	5.8	
1<2	PCP	.5	.5	.2	.1	.6	.1	.6	.2	.0	.0	2.8	
	NO PCP	.0	.2	.0	.0	.0	.0	.2	.9	.0	.0	1.4	
	TOT %	.5	.8	.2	.1	.6	.1	.9	1.2	.0	.0	4.2	
2<5	PCP	1.4	.6	.9	.2	.0	.0	1.6	2.9	.0	.0	7.9	
	NO PCP	.5	1.0	.4	.2	.9	.4	1.6	2.8	.0	.0	7.7	
	TOT %	2.1	1.6	1.3	.5	.9	.4	3.2	5.7	.0	.0	15.7	
5<10	PCP	.9	.3	.2	.4	.4	.3	.9	.8	.0	.0	4.0	
	NO PCP	2.9	3.0	1.6	1.8	2.3	2.1	4.3	5.7	.0	.2	24.1	
	TOT %	3.7	3.3	1.8	2.1	2.6	2.4	5.4	6.5	.0	.2	28.0	
10+	PCP	1.1	.4	.0	.0	.0	.0	.0	.2	.0	.0	1.6	
	NO PCP	4.4	4.6	2.4	1.9	2.6	3.8	7.5	10.5	.0	.9	38.6	
	TOT %	5.4	4.9	2.4	1.9	2.6	3.8	7.5	10.7	.0	.9	40.2	
TOT OBS													
TOT PCT													
		13.5	11.3	7.3	5.1	7.7	7.8	18.8	27.0	.0	1.6	100.0	428

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.2	.0	.0	.0	.0	.0	.2	.1	.0	.0	.6	
	22+	.2	.6	.9	.0	.3	.8	.9	1.0	.0	.0	4.7	
	TOT %	.4	.6	1.1	.0	.3	.8	1.1	1.2	.0	.3	5.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	11-21	.2	.3	.0	.3	.3	.3	.0	.6	.0	.0	1.9	
	22+	.6	.0	.3	.3	.0	.3	.0	.6	.0	.0	1.9	
	TOT %	.8	.3	.3	.6	.3	.6	.3	1.2	.0	.0	4.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.3	.6	.2	.1	.5	.1	.8	.8	.0	.0	3.3	
	TOT %	.3	.9	.2	.1	.8	.1	.8	.8	.0	.0	3.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.3	.0	.0	.0	.0	.6	.6	.0	.0	1.7	
	11-21	1.0	.7	.3	.3	.8	.3	1.9	3.1	.0	.0	8.4	
	22+	.5	.6	1.0	.3	.0	.1	.8	1.9	.0	.0	5.3	
	TOT %	1.7	1.6	1.3	.6	.8	.4	3.3	5.6	.0	.0	15.3	
5<10	0-3	.0	.0	.0	.1	.2	.3	.0	.3	.0	.3	1.1	
	4-10	.2	1.2	.3	.9	.6	.6	1.8	.8	.0	.0	6.4	
	11-21	1.8	.8	.2	.8	.8	1.0	.9	3.7	.0	.0	10.0	
	22+	1.7	1.0	1.0	.7	.4	.6	2.3	1.9	.0	.0	9.2	
	TOT %	3.8	2.9	1.5	2.5	2.1	2.4	5.0	6.7	.0	.3	26.7	
10+	0-3	.0	.0	.3	.0	.0	.3	.7	.3	.0	1.1	2.8	
	4-10	1.9	1.6	.8	.0	1.0	.8	3.2	2.4	.0	.0	11.7	
	11-21	3.1	3.1	1.3	1.0	1.1	1.8	3.0	6.1	.0	.0	20.6	
	22+	1.5	.6	.5	1.2	.5	.7	1.6	2.4	.0	.0	8.9	
	TOT %	6.5	5.3	2.9	2.2	2.6	3.6	6.5	11.3	.0	1.1	44.0	
TOT OBS													
TOT PCT													
		13.0	11.6	7.2	5.9	6.8	7.9	19.0	26.7	.0	1.7	100.0	359

MARCH

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1903-1974

AREA 0022 ONEKOTAN ISLAND
49.4N 153.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	5.8	1.9	3.8	4.8	18.3	31.7	3.8	1.9	.0	1.0	73.1	26.9	104
06009	7.6	.0	3.3	4.3	20.7	35.9	6.5	1.1	.0	.0	79.3	20.7	92
12015	10.6	1.0	.0	1.0	26.0	25.0	4.8	.0	1.0	1.0	70.2	29.8	104
18021	17.4	.0	1.4	7.2	15.9	24.6	2.9	.0	.0	.0	69.6	30.4	69
TOT	36	3	8	15	76	109	17	3	1	2	270	99	369
PCT	9.8	.8	2.2	4.1	20.6	29.5	4.6	.8	.3	.5	73.2	26.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	10.1	4.2	2.5	10.1	21.8	51.3	119
06009	7.8	6.8	3.9	13.6	24.3	43.7	103
12015	5.6	5.8	5.8	13.7	32.4	36.7	139
18021	5.2	9.3	3.1	25.8	28.9	27.8	97
TOT	33	29	18	70	124	184	458
PCT	7.2	6.3	3.9	15.3	27.1	40.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	5.8	19.2	29.8	49.0	21.2	104
06009	8.1	19.8	34.9	52.3	12.8	86
12015	11.0	17.0	34.0	38.0	28.0	100
18021	17.9	26.9	53.7	22.4	23.9	67
TOT	36	72	131	149	77	357
PCT	10.1	20.2	36.7	41.7	21.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/35	.0	.0	.0	.0	1.7	1.7	.0	5.1	5	8.5
30/34	.0	.0	.0	3.4	.0	1.7	8.5	18.6	19	32.2
25/29	.0	.0	.0	3.4	.0	3.4	8.5	18.6	20	33.9
20/24	.0	.0	.0	.0	1.7	3.4	5.1	5.1	9	15.3
15/19	.0	.0	.0	.0	.0	.0	3.4	6.8	6	10.2
TOTAL	0	0	0	4	2	6	15	32	59	100.0
PCT	.0	.0	.0	6.8	3.4	10.2	25.4	54.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	5.1	.0	.0	.0	.0	3.0	.4	.0	.0
1.3	3.4	4.7	2.1	8.5	1.7	4.7	5.9	.0	.0
2.5	5.9	3.0	.0	2.5	4.2	3.4	10.6	.0	1.7
.0	.0	.0	.0	.0	3.4	6.8	5.1	.0	.0
3.4	.0	.0	.0	.0	.0	3.0	3.8	.0	.0
7.2	14.4	7.6	2.1	11.0	9.3	20.8	25.8	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	39	38	36	28	19	8	8	28.2	116
06009	41	40	37	29	14	8	8	27.8	101
12015	41	39	36	27	14	9	9	26.5	135
18021	39	37	33	28	14	9	9	26.1	91
TOT	41	39	36	28	15	9	8	27.2	443

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	9.5	4.8	9.5	28.6	47.6	85	21		
06009	.0	9.1	.0	18.2	27.3	45.5	88	11		
12015	.0	.0	7.7	7.7	30.8	53.8	90	13		
18021	.0	7.1	.0	7.1	14.3	71.4	92	14		
TOT	0	4	2	6	15	32	88	59		

MARCH

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1903-1974

AREA 0022 ONEKOTAN ISLAND
49.4N 153.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	05 04	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	1	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.0	.5	.3	.0	3	.0	.8
5	.0	.0	.0	.0	.0	.0	.0	.5	.8	.0	5	.0	1.3
4	.0	.0	.0	.0	.0	.0	.0	.3	.5	.3	4	.0	1.1
3	.0	.0	.0	.0	.0	.0	.0	2.2	.5	.0	10	.0	2.7
2	.0	.0	.0	.0	.0	.0	1.3	1.3	.5	.0	12	.3	3.0
1	.0	.0	.0	.0	.0	.0	.8	2.2	.0	.0	11	.3	2.7
0	.0	.0	.0	.0	.0	.0	4.8	.8	1.3	.0	26	.5	6.5
-1	.0	.0	.0	.0	.0	.5	3.2	1.3	.3	.0	20	.0	5.4
-2	.0	.0	.0	.0	.0	1.1	5.1	1.1	.0	.0	27	.0	7.3
-3	.0	.0	.0	.0	.0	.8	3.8	.8	.0	.0	20	.0	5.4
-4	.0	.0	.0	.0	.0	.0	5.1	3.2	.8	.0	34	.0	9.1
-5	.0	.0	.0	.0	.3	5.4	3.2	.8	.0	.0	36	.3	9.4
-6	.0	.0	.0	.0	.5	3.0	1.1	.3	.0	.0	18	.0	4.8
-7/-8	.0	.0	.0	.0	2.7	5.1	1.1	.3	.0	.0	34	.0	9.1
-9/-10	.0	.0	.0	.0	.3	4.6	3.0	.5	.0	.0	31	.0	8.3
-11/-13	.0	.0	.0	2.7	4.3	3.2	.8	.0	.0	.0	41	.5	10.5
-14/-16	.0	.0	1.6	2.2	.5	.3	.0	.0	.0	.0	17	.0	4.6
-17/-19	.0	.5	1.3	.8	.0	.0	.0	.0	.0	.0	10	.0	2.7
-20/-22	.0	1.1	.0	.3	.3	.0	.0	.0	.0	.0	6	.3	1.3
-23/-25	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.8
-26/-30	.0	.3	.0	.5	.0	.0	.0	.0	.0	.0	3	.3	.5
TOTAL	1	9	11	25	49	102	108	47	18	2	372	9	363
PCT	.3	2.4	3.0	6.7	13.2	27.4	29.0	12.6	4.8	.5	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	.9	.0	.0	.0	.0	.9
1-2	.0	.9	1.4	.0	.0	.0	2.3	.0	.9	1.5	.0	.0	.0	2.5
3-4	.0	.4	1.3	.8	.0	.0	2.5	.0	1.2	1.2	.9	.0	.0	3.3
5-6	.0	.0	.9	.9	.0	.0	1.9	.0	.0	.6	.1	.0	.0	.7
7	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	1.4	.8	.0	.0	2.2
8-9	.0	.0	.3	1.1	.0	.0	1.4	.0	.0	.4	.0	.1	.0	.5
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.4	.0	.4
12	.0	.0	.0	.4	.7	.0	1.0	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.4	.7	.0	.0	1.0	.0	.0	.0	.1	.4	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	6.0	4.5	.7	.0	13.0	.0	3.0	5.1	2.4	.9	.0	11.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.0	.0	.0	.0	1.1	.1	.8	.4	.0	.0	.0	1.2
1-2	.0	.0	.7	.0	.0	.0	.7	.0	.0	.2	.0	.0	.0	.2
3-4	.0	.3	.0	.7	.0	.0	.9	.0	.0	1.9	.9	.0	.0	2.7
5-6	.0	.0	.8	.6	.0	.0	1.3	.0	.0	.1	.5	.1	.0	.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.0	.5
8-9	.0	.0	.0	.8	.3	.0	1.0	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.4
13-16	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.4	.4	.0	.8
17-19	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.0	1.4	2.9	.3	.0	6.1	.1	.8	2.6	2.6	1.2	.0	7.2

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0022 ONEKUTAN ISLAND
49.4N 153.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3	.0	.0	.4	.0	.0	.0	.4
1-2	.0	.0	.3	.0	.0	.0	.3	.0	.4	.1	.0	.0	.0	.5
3-4	.0	.8	.0	.3	.0	.0	1.0	.0	.0	.4	.4	.0	.0	.8
5-6	.0	.0	.6	.4	.3	.0	1.2	.4	.0	1.6	.4	.0	.0	2.4
7	.0	.0	.7	.7	.0	.0	1.3	.1	.0	.1	.6	.0	.0	.8
8-9	.0	.0	.4	.4	.0	.0	.8	.0	.0	.9	.4	.0	.0	1.6
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.1	.0	.4	.0	.0	.5
12	.0	.0	.4	.0	.3	.0	.7	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.9
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.8	2.7	1.7	.6	.0	6.0	.5	.5	3.4	2.1	1.3	.0	7.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.8	.4	.0	.0	.0	1.1	.4	.8	.0	.0	.0	.0	1.1	
1-2	.0	1.5	.7	.0	.0	.0	2.2	.4	1.2	1.6	.0	.0	.0	3.2	
3-4	.0	1.9	3.6	.0	.0	.0	5.5	.0	.0	3.7	1.1	.0	.0	4.8	
5-6	.4	.0	1.0	1.2	.0	.0	2.7	.0	.0	4.3	1.2	.0	.0	5.5	
7	.3	.0	.0	2.0	.0	.0	2.3	.0	.4	3.0	1.6	.0	.0	5.0	
8-9	.0	.4	1.0	1.2	.0	.0	2.7	.0	.4	.9	1.0	.4	.0	2.7	
10-11	.0	.3	.0	.3	.4	.0	.9	.0	.0	1.9	1.3	.0	.0	3.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.5	
13-16	.0	.0	.4	.4	.8	.0	1.5	.0	.0	.0	1.6	.4	.0	2.0	
17-19	.0	.0	.0	.4	.6	.0	.9	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	4.8	7.1	5.5	1.7	.0	19.8	.8	2.7	15.3	8.3	.9	.0	28.1	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.9	4.5	1.1	.0	.0	.0	7.6	
1-2	.4	4.9	6.4	.0	.0	.0	11.7	
3-4	.0	4.5	12.1	4.9	.0	.0	21.6	
5-6	.8	.0	9.8	5.3	.4	.0	16.3	
7	.4	.4	6.8	5.7	.4	.0	13.6	
8-9	.0	.8	3.8	5.3	1.1	.0	11.0	
10-11	.0	.4	2.3	2.3	1.1	.0	6.1	
12	.0	.0	.4	1.5	1.1	.0	3.0	
13-16	.0	.0	.8	3.8	1.9	.0	6.4	
17-19	.0	.0	.0	.8	1.5	.0	2.3	
20-22	.0	.0	.0	.4	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.4	15.5	43.6	29.9	7.6	.0	100.0	264

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	5.6	9.7	7.0	3.8	.8	1.1	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	4
6-7	.0	1.1	2.7	2.4	4.0	4.3	2.9	.8	1.6	1.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	79	4
8-9	.0	.0	.8	1.1	2.1	2.4	3.5	.8	1.9	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	9
10-11	.0	.8	.3	.0	.0	.3	.8	.8	.5	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	18	11
12-13	.0	.0	.8	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	6	9
>13	.0	.0	.0	.3	.0	.0	.3	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	4	13
INDEX	4.6	2.7	4.8	3.8	3.8	3.2	2.1	.5	2.4	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	108	6
TOTAL	18	38	71	54	51	42	40	12	27	15	3	1	1	0	0	0	0	0	0	373	7
PCT	4.8	10.2	19.0	14.5	13.7	11.3	10.7	3.2	7.2	4.0	.8	.3	.3	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1933-1974AREA 0022 ONEKOTAN ISLAND
49.4N 153.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	12.6	.0	.0	12.6	1.8	.0	4.5	1.4	.0	.0	79.7
NE	1.7	.0	1.7	.0	3.7	.0	.0	5.4	2.1	.0	7.5	.4	1.7	1.7	81.3
E	5.5	.0	.0	.0	14.9	.0	.0	20.4	7.1	.0	13.7	.0	.0	1.6	57.3
SE	2.8	.0	.4	.0	10.6	1.6	.0	15.4	7.7	1.6	24.0	1.6	1.6	.0	49.6
S	3.2	.0	1.0	.0	11.1	.0	.0	15.3	4.5	.0	20.4	.0	.0	.0	59.4
SW	.9	.0	1.2	.0	9.5	.0	.0	11.5	2.3	.3	13.3	1.2	.0	.0	71.5
W	1.7	.0	.0	.0	9.3	.0	.0	11.0	.9	.9	4.1	.0	.0	1.7	81.4
NW	.0	.0	.0	.0	12.6	.0	.0	12.6	5.3	.0	.8	3.2	.0	.8	77.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	5.3	.0	15.8	5.3	.0	.0	73.7
TOT PCT	1.9	.0	.5	.0	10.1	.2	.0	12.6	3.8	.3	11.3	1.0	.3	.7	70.0
TOT OBS:	573														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.6	.0	.5	.0	11.0	.0	.0	13.6	2.6	.5	11.5	1.6	.5	.5	69.6
06009	1.4	.0	.7	.0	7.5	.0	.0	9.6	4.1	.0	9.6	.0	.0	.0	76.7
12015	2.0	.0	.0	.7	12.9	.7	.0	16.3	4.1	.7	10.2	.7	.7	2.0	65.3
18021	1.4	.0	.7	.0	9.0	.0	.0	11.1	4.2	.0	13.9	1.4	.0	.7	68.8
TOT PCT TOT OBS:	1.9 628	.0	.5	.2	10.2	.2	.0	12.7	3.7	.3	11.3	1.0	.3	.8	70.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15
N	.2	2.8	5.0	1.5	.0	.0	.0	9.4	14.6		8.3	3.8	11.0	9.3	10.4	11.8
NE	.4	3.1	4.0	2.1	.5	.0	.0	10.2	16.1		13.2	9.6	10.5	6.5	9.0	10.4
E	.3	2.3	4.2	3.6	.4	.0	.0	10.8	18.5		9.0	11.5	9.3	6.5	13.0	19.7
SE	.5	1.9	5.0	3.5	.9	.0	.0	11.8	18.8		10.5	13.5	10.3	12.0	13.2	6.6
S	.2	2.1	8.6	2.6	.1	.0	.0	13.6	17.4		14.3	21.2	14.7	23.1	10.0	17.1
SW	.2	3.7	7.7	3.3	.2	.0	.0	15.2	16.2		12.1	17.3	16.7	16.7	15.5	23.7
W	.0	3.2	5.4	4.6	.5	.0	.0	13.7	18.2		16.0	13.5	12.5	13.0	15.0	7.9
NW	.2	2.6	4.7	3.7	.6	.0	.0	11.9	18.8		14.3	9.6	12.0	9.3	10.2	3.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0		2.2	.0	2.9	3.7	3.7	7.2
TOT OBS	30	121	247	138	18	0	554	16.8			136	26	102	27	108	19
TOT PCT	5.4	21.8	44.6	24.9	3.2	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	03	06	12	18
N	1.1	4.2	4.1	.0	.0	.0	9.4	14.6		7.6	10.7	10.6	9.4	
NE	1.4	4.2	3.2	1.3	.0	.0	10.2	16.1		12.7	9.7	9.1	8.6	
E	1.1	3.7	3.7	2.2	.0	.0	10.8	18.5		9.4	8.7	14.0	11.6	
SE	.9	4.9	3.7	2.3	.0	.0	11.8	18.8		11.0	10.7	12.2	13.4	
S	.6	4.7	7.2	.9	.1	.0	13.6	17.4		15.4	16.5	11.0	11.2	
SW	1.4	7.0	5.7	1.0	.0	.0	15.2	16.2		13.0	16.7	16.7	14.9	
W	1.1	4.9	6.0	1.4	.3	.0	13.7	18.2		15.6	12.6	14.0	12.3	
NW	1.1	3.4	5.3	1.9	.1	.0	11.9	18.8		13.6	11.4	9.3	12.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	
CALM	3.4						3.4	.0		1.9	3.1	3.1	5.9	
TOT OBS	68	205	216	62	3	554	16.8			162	129	127	136	
TOT PCT	12.3	37.0	39.0	11.2	.5		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1933-1974

APRIL

AREA 0022 ONEKOTAN ISLAND
49.4N 153.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CAIM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000Z	1.2	1.2	24.1	41.4	27.8	3.7	.0	17.3	100.0	162
0600Z	3.1	.8	17.1	48.8	24.0	6.2	.0	18.0	100.0	129
1201Z	3.1	2.4	20.5	47.2	23.6	3.1	.0	16.7	100.0	127
1802Z	5.9	3.7	25.0	41.9	23.5	.0	.0	15.1	100.0	136
TOT	19	11	121	247	138	18	0	16.8		554
PCT	3.4	2.0	21.8	44.6	24.9	3.2	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	1.2	3.9	4.0		5.9
NE	1.5	.8	1.3	6.2		6.3
E	.6	.6	2.0	7.1		7.0
SE	.2	.9	.9	7.6		7.2
S	2.0	1.0	.8	9.3		6.3
SW	3.7	.8	3.6	6.5		5.4
W	5.6	2.3	5.1	4.4		4.5
NW	1.9	.9	3.3	5.2		5.8
VAR	.0	.0	.0	.0		.0
CALM	1.1	.2	.7	1.3		4.8
TOT OBS	81	39	97	231	448	5.9
TOT PCT	18.1	8.7	21.7	51.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.6	.0	.4	.4	1.3	3.9	1.2	.0	.0	.0	2.8	
NE	1.8	.0	.2	.3	1.1	2.9	.6	.2	.0	.0	2.7	
E	2.1	.2	.2	.4	1.6	2.4	.8	.2	.0	.2	2.3	
SE	4.2	.0	.0	.2	1.7	1.6	.5	.3	.0	.0	1.1	
S	2.9	.0	.0	1.5	2.0	1.9	.8	.2	.0	.0	3.8	
SW	1.7	.0	.4	.8	1.6	2.5	1.2	.2	.2	.4	5.4	
W	1.1	.0	.0	1.1	2.2	2.1	1.2	.0	.0	.0	9.5	
NW	.6	.0	.1	1.3	3.1	2.8	.4	.0	.0	.0	3.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.2	.0	.0	.0	.9	.2	.0	.0	.0	.0	
TOT OBS	68	7	6	27	65	94	31	5	1	3	146	448
TOT PCT	15.2	.4	1.3	6.0	14.5	21.0	6.9	1.1	.2	.7	32.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10		OR >5		OR >2		OR >1		OR >1/2		OR >1/4		OR >50YD		OR >0	
OR >6500	.4	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OR >5000	1.0	1.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
OR >3500	5.0	7.9	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
OR >2000	17.4	26.0	28.9	29.1	29.3	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
OR >1000	20.2	34.5	39.9	41.3	42.6	43.2	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
OR >600	20.9	37.2	44.2	46.7	48.6	49.2	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
OR >300	20.9	37.8	45.2	47.7	49.8	50.6	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
OR >150	21.1	38.0	45.7	48.1	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
OR >0	21.1	39.5	49.4	54.8	59.7	63.2	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
TOTAL	102	191	239	265	289	306	326	326	326	326	326	326	326	326	326	326

TOTAL NUMBER OF OBS: 484

PCT FREQ NH <5/8 32.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.4	3.5	4.9	5.4	4.5	2.5	6.6	8.7	35.3	15.1	515

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1933-1974

APRIL

AREA 0022 ONEKOTAN ISLAND
49.4N 153.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.4	.6	.1	.8	.9	.1	.1	.0	.0	3.1	
	NO PCP	.1	.2	.6	1.3	1.0	1.5	.3	*	.0	.2	5.2	
	TOT %	.3	.6	1.2	1.4	1.8	2.4	.4	.1	.0	.2	8.3	
1/2<1	PCP	.5	.2	.4	.1	.1	*	.4	.4	.0	.0	2.3	
	NO PCP	.0	.0	.5	.5	.0	.5	.1	.2	.0	.0	1.9	
	TOT %	.5	.2	1.0	.6	.1	.6	.6	.6	.0	.0	4.2	
1<2	PCP	.2	.2	.5	.6	.6	.2	.2	.4	.0	.0	2.9	
	NO PCP	.1	.2	.0	.4	1.1	.2	.0	.2	.0	.0	2.3	
	TOT %	.3	.4	.5	1.0	1.7	.5	.2	.6	.0	.0	5.2	
2<5	PCP	.4	.0	.5	.7	.3	.7	.3	.4	.0	.0	3.5	
	NO PCP	.8	1.5	1.0	1.1	1.2	.2	1.0	.5	.0	.3	7.6	
	TOT %	1.2	1.5	1.6	1.9	1.5	.9	1.3	.9	.0	.3	11.1	
5<10	PCP	.0	.0	.0	.2	.3	*	.3	.0	.0	.0	.9	
	NO PCP	2.9	3.0	2.5	3.2	4.8	4.4	2.9	2.9	.0	.7	27.4	
	TOT %	2.9	3.0	2.5	3.5	5.1	4.4	3.3	2.9	.0	.7	28.2	
10+	PCP	.0	.0	.2	.0	.0	.2	.2	.1	.0	.0	.7	
	NO PCP	4.9	4.9	4.1	2.5	3.4	6.5	8.9	5.4	.0	2.1	42.3	
	TOT %	4.9	4.9	4.3	2.5	3.4	6.6	9.1	5.5	.0	2.1	43.0	
TOT OBS													577
TOT PCT		9.8	10.6	11.0	10.8	13.6	15.4	14.9	10.7	.0	3.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.4	
	4-10	.0	.2	.4	.2	.2	.9	.2	.0	.0	.0	2.1	
	11-21	.1	.0	.3	1.0	.7	1.8	.1	*	.0	.0	4.1	
	22+	.1	.4	.3	.3	.6	.4	.1	.1	.0	.0	2.4	
	TOT %	.3	.6	1.0	1.5	1.6	3.1	.5	.1	.0	.2	9.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.2	.0	.2	.0	.0	.0	.2	.0	.0	.0	.6	
	11-21	.0	.2	.3	.8	.2	.4	.5	.4	.0	.0	2.8	
	22+	.0	.0	.4	.0	.0	*	.3	.2	.0	.0	.9	
	TOT %	.2	.2	.8	.8	.2	.4	1.0	.7	.0	.2	4.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	*	.2	.2	.3	.2	.0	.2	.0	.0	1.3	
	11-21	.2	.0	.2	.5	1.4	.3	.1	.2	.0	.0	2.6	
	22+	.0	.4	.2	.6	.1	*	.1	.3	.0	.0	1.7	
	TOT %	.3	.4	.4	1.3	1.9	.5	.2	.7	.0	.0	5.6	
2<5	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.4	.6	
	4-10	.3	.2	.1	.2	.0	.2	.1	.1	.0	.0	1.3	
	11-21	.7	.7	.8	.9	1.5	.4	.2	.2	.0	.0	5.4	
	22+	.2	.4	.9	1.4	.5	.2	.9	1.0	.0	.0	5.4	
	TOT %	1.2	1.5	1.9	2.5	2.1	.8	1.2	1.3	.0	.4	12.7	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
	4-10	1.0	.3	.5	.7	.5	.7	.3	.4	.0	.0	4.5	
	11-21	1.4	1.4	1.1	1.0	2.6	2.1	1.4	1.3	.0	.0	12.2	
	22+	.6	1.1	.7	1.9	1.3	1.3	1.4	1.2	.0	.0	9.4	
	TOT %	2.9	2.8	2.4	3.5	4.3	4.1	3.0	2.9	.0	.7	26.8	
10+	0-3	.2	.2	.3	.6	.0	.2	.0	.2	.0	2.1	3.7	
	4-10	1.3	2.5	1.0	.6	1.0	1.6	2.4	1.5	.0	.0	12.0	
	11-21	2.6	1.8	1.8	.8	1.9	3.0	3.3	2.6	.0	.0	18.0	
	22+	.7	.5	1.0	.5	.4	1.5	2.2	1.0	.0	.0	7.7	
	TOT %	4.7	5.1	4.2	2.5	3.3	6.3	7.9	5.4	.0	2.1	41.4	
TOT OBS													534
TOT PCT		9.6	10.5	10.7	12.0	13.4	15.3	13.8	11.0	.0	3.6	100.0	

APRIL

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1933-1974AREA 0022 ONEKOTAN ISLAND
49.4N 153.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL DBS	NH <5/8 ANY HGT	TOTAL DBS
00003	13.2	1.3	1.3	7.9	18.5	23.2	6.6	.7	1.3	.7	74.8	25.2	191
06009	8.9	.0	.8	7.3	17.9	19.5	9.8	3.3	.0	1.6	69.1	30.9	123
12015	19.8	.0	1.7	3.4	7.8	18.1	3.4	.9	.0	.0	55.2	44.8	116
18021	24.0	.0	1.9	4.8	9.6	21.2	4.8	.0	.0	.0	66.3	33.7	104
TOT	79	2	7	30	69	102	31	6	2	3	331	163	494
PCT	16.0	.4	1.4	6.1	14.0	20.6	6.3	1.2	.4	.6	67.0	33.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	6.7	5.7	6.7	10.4	27.5	43.0	193
06009	6.4	5.1	4.9	12.8	26.3	44.9	156
12015	11.9	4.6	6.0	10.6	25.8	41.1	151
18021	9.5	5.1	7.6	14.6	27.8	35.4	158
TOT	36	34	41	79	177	271	658
PCT	8.5	5.2	6.2	12.0	26.9	41.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ANDS+	NH <5/8 AND 5+	TOTAL DBS
00003	12.8	18.1	33.6	42.3	24.2	149
06009	9.0	13.1	28.7	41.8	29.5	122
12015	20.0	25.5	34.5	23.6	41.8	110
18021	24.3	31.1	42.7	26.2	31.1	103
TOT	77	103	167	167	190	484
PCT	15.9	21.3	34.5	34.5	31.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
33/39	.0	.0	.0	.0	4.2	.0	12.5	2.1	9	18.8
30/34	.0	.0	.0	4.2	4.2	8.3	20.8	25.0	30	62.5
23/29	.0	.0	.0	.0	2.1	2.1	10.4	4.2	9	18.8
TOTAL	0	0	0	2	5	5	21	15	48	100.0
PCT	.0	.0	.0	4.2	10.4	10.4	43.8	31.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CAL 1
2.1	.0	2.1	1.0	10.9	.5	1.6	.5	.0	.0
1.6	.0	1.6	8.3	12.5	14.1	17.7	6.8	.0	.0
.0	4.2	.0	.0	.0	.0	1.6	10.9	.0	2.1
3.6	4.2	3.6	9.4	23.4	14.6	20.8	18.2	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	45	44	41	34	27	19	15	33.3	170
06009	46	43	41	34	28	25	14	34.4	139
12015	43	41	37	32	26	23	21	32.2	137
18021	45	41	37	32	25	23	17	31.9	156
TOT	46	43	39	33	27	23	14	32.9	602

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	13.3	26.7	6.7	26.7	26.7	76	15
06009	.0	.0	7.7	7.7	53.0	30.8	85	13
12015	.0	.0	.0	10.0	50.0	40.0	87	10
18021	.0	.0	16.7	16.7	41.7	25.0	82	12
TOT	0	2	7	5	21	15	82	50

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1933-1974

APRIL

AREA 0022 ONEKOTAN ISLAND
49.4N 153.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.3	1	.0	.3
11/13	.0	.0	.0	.0	.0	.0	.0	.3	.0	1	.0	.3
9/10	.0	.0	.0	.0	.0	.0	.0	1.3	.0	5	.3	1.0
7/8	.0	.0	.0	.0	.0	.0	.8	.5	.3	6	.0	1.5
6	.0	.0	.0	.0	.0	.5	.3	.0	.0	3	.0	.6
5	.0	.0	.0	.0	.0	.5	2.3	.0	.3	12	1.0	2.0
4	.0	.0	.0	.0	.0	1.8	3.1	.0	.0	19	.3	4.6
3	.0	.0	.0	.0	.8	2.6	1.8	.0	.0	20	.0	5.1
2	.0	.0	.0	.0	.5	5.9	1.3	.5	.0	32	1.0	7.1
1	.0	.0	.0	.0	.5	4.1	.8	.0	.0	21	1.0	4.3
0	.0	.0	.0	.5	5.1	7.7	1.5	.3	.0	59	1.8	13.3
-1	.0	.0	.0	.0	4.6	4.6	.3	.0	.0	37	.8	8.7
-2	.0	.0	.0	1.5	8.7	4.6	.3	.5	.0	61	2.6	13.0
-3	.0	.0	.0	.3	2.3	2.3	.3	.3	.0	21	.3	5.1
-4	.0	.0	.0	1.3	3.8	1.5	.3	.0	.0	27	.8	6.1
-5	.0	.0	.0	3.6	1.8	.5	.0	.0	.0	23	.8	5.1
-6	.0	.0	.0	1.8	.8	.0	.0	.0	.0	10	.3	2.3
-7/-8	.0	.0	.3	1.5	.5	1.0	.3	.0	.0	14	.8	2.6
-9/-10	.0	.0	.0	.8	.8	.0	.0	.0	.0	6	.3	1.3
-11/-13	.0	.0	.3	1.5	.3	.0	.0	.0	.0	8	.0	2.0
-14/-16	.0	.3	.0	.0	.5	.0	.0	.0	.0	3	.0	.8
-17/-19	.0	.3	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
-20/-22	.3	.0	.0	.3	.0	.0	.0	.0	.0	2	.0	.5
TOTAL	1	2	2	51	121	145	52	15	3	392	46	346
PCT	.3	.5	.5	13.0	30.9	37.0	13.3	3.8	.8	100.0	11.7	88.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.3	.0	.0	.0	.9	.1	1.1	.0	.0	.0	.0	1.2
1-2	.0	.5	1.7	.0	.0	.0	2.2	.0	.7	1.4	.0	.0	.0	2.1
3-4	.0	.8	1.5	.3	.0	.0	2.6	.0	.4	1.3	.3	.0	.0	2.0
5-6	.0	.0	.7	.5	.0	.0	1.2	.0	.0	.4	.9	.0	.0	1.3
7	.0	.2	1.1	.5	.0	.0	1.8	.0	.3	.6	.6	.3	.0	1.8
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.3	.6	.0	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.3	.3	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.3	.3	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	5.3	1.8	.0	.0	9.2	.1	2.9	4.9	2.4	.9	.0	11.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.3	.0	.0	.0	1.0	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.5	.6	.0	.0	.0	1.1	.0	.6	.9	.0	.0	.0	1.6
3-4	.0	.5	2.1	.0	.0	.0	2.7	.3	.9	1.1	.1	.0	.0	2.4
5-6	.0	.0	.6	1.1	.0	.0	1.6	.0	.1	.6	1.5	.0	.0	2.2
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.6	.9	.6	.0	2.0
8-9	.0	.0	.3	.5	.0	.0	.8	.0	.0	.1	.7	.6	.0	1.4
10-11	.0	.0	.5	.0	.0	.0	.5	.0	.0	.3	.1	.1	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.3	.0	.8	.0	.0	.0	.4	.3	.0	.6
17-19	.0	.0	.0	.3	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.5	4.9	2.4	.6	.0	9.5	.3	1.7	3.6	3.7	1.5	.0	10.7

PERIOD: (OVER-ALL) 1963-1974

APRIL
TABLE 18 (CONT)AREA 0022 ONEKOTAN ISLAND
49.4N 153.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	1.4	.3	.0	.0	.0	1.6
1-2	.0	.7	1.9	.0	.0	.0	2.6	.3	1.0	3.1	.0	.0	.0	4.4
3-4	.0	.3	3.4	.6	.0	.0	4.3	.0	.9	1.4	.4	.0	.0	2.8
5-6	.0	.5	.7	.4	.0	.0	1.6	.0	.0	2.4	.6	.0	.0	3.0
7	.0	.6	.2	.2	.0	.0	1.0	.0	.3	1.2	1.3	.0	.0	2.8
8-9	.0	.0	.5	.2	.0	.0	.7	.0	.0	.0	.9	.0	.0	.9
10-11	.0	.0	.0	.7	.2	.0	.9	.0	.0	.0	.6	.3	.0	.9
12	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	6.9	2.5	.2	.0	12.2	.3	3.6	8.7	3.9	.3	.0	16.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	1.2	1.6	.0	.0	.0	2.8	.0	.7	.3	.0	.0	.0	1.0	
3-4	.0	.5	1.5	.5	.0	.0	2.5	.0	.0	2.0	.0	.0	.0	2.0	
5-6	.0	.2	.8	.0	.0	.0	1.0	.0	.4	.1	.3	.0	.0	1.1	
7	.0	.0	.7	2.8	.0	.0	3.5	.0	.1	1.4	1.5	.0	.0	2.9	
8-9	.0	.0	.3	.7	.4	.0	1.4	.0	.0	.6	.8	.4	.0	1.8	
10-11	.0	.0	.2	.0	.3	.0	.5	.0	.0	1.2	.9	.0	.0	2.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	
13-16	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.6	.0	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.2	5.1	4.6	.7	.0	13.6	.0	1.7	5.9	4.1	1.0	.0	12.7	95.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.6	6.0	.9	.0	.0	.0	11.5	
1-2	.3	6.0	11.5	.0	.0	.0	17.8	
3-4	.3	4.3	14.3	2.3	.0	.0	21.2	
5-6	.0	1.1	6.3	5.4	.3	.0	13.2	
7	.0	1.4	6.3	7.7	.9	.0	16.3	
8-9	.0	.3	2.3	4.0	1.4	.0	8.0	
10-11	.0	.0	2.6	2.6	1.1	.0	6.3	
12	.0	.0	.6	.0	.3	.0	.9	
13-16	.0	.0	.3	2.9	.6	.0	3.7	
17-19	.0	.0	.3	.3	.6	.0	1.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.2	19.2	45.3	25.2	5.2	.0	100.0	349

PERIOD: (OVER-ALL) 1968-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	6.9	11.3	6.7	5.4	1.7	1.1	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	158	4
6-7	.0	.9	2.8	3.0	6.5	3.7	3.0	.4	1.1	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	102	7
8-9	.0	.7	1.1	1.3	3.0	2.2	2.8	.2	2.2	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	66	9
10-11	.0	.7	.0	.9	.0	.2	.9	.2	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	9
12-13	.0	.0	.9	.2	.7	.7	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
>13	.0	.0	.0	.4	1.1	.0	.2	.2	.2	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	13	11
INDET	3.7	2.0	3.9	3.0	3.5	1.7	.9	.4	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	5
TOTAL	19	51	92	72	93	47	41	8	24	9	3	2	0	0	0	0	0	0	0	461	6
PCT	4.1	11.1	20.0	15.6	20.2	10.2	8.9	1.7	5.2	2.0	.7	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1904-1974

MAY

AREA 0022 ONEKOTAN ISLAND
49.3N 152.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	4.8	.0	1.4	.0	5.8	.0	.0	10.6	.7	.0	33.7	1.4	.0	.0	53.6
NE	4.7	.0	4.0	.0	4.2	1.4	.0	14.0	2.3	.0	33.3	.4	.0	.0	49.6
E	8.4	.7	2.6	.0	4.8	.0	.0	16.5	3.3	.0	31.0	1.2	.7	.0	47.3
SE	15.4	.5	3.6	.0	2.9	.5	.0	20.7	4.3	.0	32.7	.7	.5	.5	40.6
S	9.1	.4	4.4	.0	1.4	.0	.0	14.8	2.1	.0	28.8	.5	.4	.0	53.4
SW	2.2	.1	3.3	.0	.6	.0	.0	6.4	1.8	.0	34.3	.5	.1	.5	56.5
W	4.8	.0	5.7	.0	.6	.0	.0	11.0	1.5	.0	23.1	1.8	.0	.0	62.6
NW	.8	.0	2.3	.0	1.8	.0	.0	4.6	2.0	.0	30.1	1.3	.0	.0	62.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6	.9	.9	.0	.0	.0	.0	5.4	.9	.0	34.2	.9	2.7	.0	55.9
TOT PCT	6.2	.3	3.4	.0	2.3	.2	.0	11.7	2.2	.0	31.0	1.0	.4	.1	53.5
TOT OBS:	1436														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	5.4	.0	2.5	.0	2.7	.7	.0	10.9	.7	.0	33.1	.7	.5	.5	53.7
0600	5.6	1.1	3.7	.0	1.6	.0	.0	11.4	1.6	.0	30.2	1.6	.0	.0	55.2
1200	6.9	.0	4.6	.0	1.8	.0	.3	13.2	4.8	.0	26.6	1.0	.5	.0	53.8
1800	6.1	.0	2.9	.0	3.2	.0	.0	11.3	1.6	.0	30.5	.3	.6	.0	55.6
TOT PCT	6.0	.3	3.4	.0	2.3	.2	.1	11.7	2.2	.0	30.2	.9	.4	.1	54.5
TOT OBS:	1523														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.8	3.0	2.7	.6	.1	.0		7.2	11.4	6.7	5.7	8.2	6.4	7.6	5.7	5.3	11.0
NE	.7	6.2	3.3	.9	.8	.0		11.0	10.6	10.1	10.4	8.5	9.8	12.2	13.9	11.8	15.7
E	.2	4.2	3.1	2.0	.9	.0		10.4	15.6	6.0	12.8	11.6	12.2	10.8	11.5	9.8	19.2
SE	.5	4.2	5.9	2.7	.3	.0		13.1	14.8	12.5	17.3	13.0	17.6	12.8	18.0	11.3	9.6
S	.4	4.4	7.1	1.7	.2	.0		13.8	14.5	12.7	18.2	12.6	12.5	12.1	14.8	17.9	12.7
SW	1.5	4.5	5.9	1.3	.1	.0		13.4	12.7	15.8	9.5	13.5	13.9	14.1	15.6	10.3	12.0
W	.8	4.7	4.8	1.0	.1	.0		11.4	12.6	12.7	7.7	10.7	13.5	12.2	9.0	12.0	6.8
NW	.4	5.2	5.9	1.3	.8	.0		12.9	13.3	13.9	17.3	13.5	10.8	12.5	9.8	10.8	13.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.9							6.9	.0	9.5	1.2	8.4	1.4	5.9	1.6	1.6	.0
TOT OBS	165	500	527	159	24	0	1375		12.4	304	84	273	74	290	61	216	73
TOT PCT	12.0	36.4	38.3	11.6	1.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	2.4	3.0	3.5	.3	.0		7.2	11.4	6.4	8.2	7.3	6.7	
NE	3.4	5.9	1.4	.2	.8		11.0	10.6	10.2	8.8	12.5	12.7	
E	2.7	3.7	2.6	1.2	.2		10.4	15.6	7.5	11.7	10.9	12.2	
SE	2.3	6.0	3.7	1.1	.1		13.1	14.8	13.5	14.0	13.7	10.9	
S	2.4	6.4	4.3	.6	.1		13.8	14.5	13.9	12.6	12.5	16.6	
SW	3.5	6.3	3.1	.5	.1		13.4	12.7	14.4	13.5	14.3	10.7	
W	2.1	6.5	2.5	.4	.0		11.4	12.6	11.7	11.3	11.6	10.7	
NW	2.1	6.5	3.9	.3	.0		12.9	13.3	14.6	12.9	12.0	11.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	6.9						6.9	.0	7.7	6.9	5.1	8.0	
TOT OBS	303	608	315	62	7	1375		12.4	388	347	351	289	
TOT PCT	27.9	44.2	22.9	4.5	.5		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1908-1974

MAY

AREA 0022 ONEKOTAN ISLAND
49.3N 152.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	7.7	3.4	36.3	34.4	12.9	1.3	.0	12.5	100.0	388
0600	6.9	3.7	35.4	38.6	13.0	2.3	.0	12.9	100.0	347
1200	5.1	5.7	38.2	39.3	10.3	1.4	.0	12.1	100.0	351
1800	8.0	8.3	35.3	36.7	9.7	2.1	.0	12.0	100.0	289
TOT	95	70	500	527	159	24	0	12.4		1375
PCT	6.9	5.1	36.4	38.3	11.6	1.7	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.3	.9	6.3		7.1
NE	.4	.2	1.1	6.8		7.3
E	.3	.2	.9	8.0		7.5
SE	.0	.1	1.2	10.7		7.4
S	2.8	.6	1.5	9.1		6.0
SW	2.4	1.3	2.5	8.6		6.1
W	1.8	.7	2.0	7.6		6.3
NW	1.3	.5	1.3	9.1		6.8
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.8	6.8		7.2
TOT OBS	115	44	129	778	1066	6.8
TOT PCT	10.8	4.1	12.1	73.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	2.2	.0	.1	.5	2.3	1.6	.4	.1	.0	.1	.9	
NE	2.0	.1	.4	.5	1.7	2.3	.2	.0	.1	.1	.9	
E	3.0	.0	.1	.2	2.3	2.6	.3	.1	.2	.0	.5	
SE	4.5	.1	.4	.7	2.0	2.6	.4	.1	.2	.4	1.3	
S	3.9	.1	.3	1.0	1.8	1.6	.3	.1	.4	.4	4.2	
SW	3.4	.1	.1	.7	1.5	3.6	.5	.0	.1	.2	4.6	
W	2.5	.3	.4	.5	1.7	2.9	.4	.1	.2	.4	2.6	
NW	2.9	.4	.4	.8	1.6	2.8	1.1	.0	.2	.1	2.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.8	.0	.2	.5	1.2	1.8	.4	.1	.2	.1	1.1	
TOT OBS	289	11	25	58	172	232	43	6	18	18	194	1066
TOT PCT	27.1	1.0	2.3	5.4	16.1	21.8	4.0	.6	1.7	1.7	18.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.4	2.7	3.1	3.1	3.1	3.2	3.2	3.2
>5000	1.7	3.1	3.6	3.7	3.7	3.8	3.8	3.8
>3500	4.2	6.6	7.9	8.0	8.0	8.1	8.1	8.1
>2000	14.0	25.3	28.9	29.4	29.5	29.8	29.8	29.9
>1000	19.4	36.7	43.6	44.5	45.1	45.5	45.7	45.8
>600	20.3	40.0	48.6	50.0	50.9	51.4	51.6	51.7
>300	20.7	41.1	50.4	51.9	53.0	53.7	53.9	54.0
>150	20.7	41.4	51.3	52.9	54.0	54.7	55.0	55.1
>0	20.8	42.4	54.9	58.4	61.9	68.8	80.6	81.5
TOTAL	226	460	596	634	672	746	874	884

TOTAL NUMBER OF OBS: 1085

PCT FREQ NH <5/8 18.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.7	1.9	2.3	2.3	2.0	1.9	3.6	5.0	46.6	24.8	1187

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1908-1974

MAY

AREA 0022 ONEKOTAN ISLAND
49.3N 152.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.2	.5	.2	.2	.1	*	.0	.0	.0	1.2	
	NO PCP	1.4	2.2	1.7	3.1	2.6	3.7	1.6	1.9	.0	1.9	19.5	
	TOT %	1.4	2.4	2.2	3.3	2.8	3.4	1.6	1.9	.0	1.9	20.7	
1/2<1	PCP	.1	.2	.1	.3	.1	.1	.0	.0	.0	.1	.8	
	NO PCP	.7	.3	.2	.5	.3	.2	.1	.7	.0	.3	2.8	
	TOT %	.3	.5	.3	.7	.4	.3	.1	.7	.0	.3	3.7	
1<2	PCP	.2	.3	.4	.4	.6	.1	.1	*	.0	.0	2.2	
	NO PCP	*	.2	.5	.3	.2	.2	.3	.3	.0	.2	2.2	
	TOT %	.3	.5	.9	.7	.9	.3	.4	.4	.0	.2	4.4	
2<5	PCP	.7	.4	.5	1.5	.7	.3	.6	.4	.0	.1	4.8	
	NO PCP	.7	1.0	1.2	1.2	1.2	1.1	.8	1.1	.0	.8	9.1	
	TOT %	1.0	1.4	1.7	2.8	1.9	1.4	1.4	1.4	.0	.9	13.9	
5<10	PCP	.3	.2	.3	.4	.5	.3	.4	.2	.0	.1	2.6	
	NO PCP	1.7	2.5	1.8	1.9	3.6	4.1	3.2	2.7	.0	1.5	23.0	
	TOT %	2.1	2.7	2.1	2.3	4.1	4.4	3.6	2.9	.0	1.5	25.6	
10+	PCP	.1	.1	.0	.1	.0	*	*	*	.0	.1	.4	
	NO PCP	2.5	2.4	2.7	3.6	3.8	4.4	4.3	5.0	.0	2.6	31.3	
	TOT %	2.5	2.5	2.7	3.7	3.8	4.4	4.3	5.0	.0	2.8	31.7	
TOT OBS													1443
TOT PCT		7.5	9.9	9.8	13.4	13.8	14.2	11.5	12.3	.0	7.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	.0	*	*	.8	.3	.1	.0	1.5	2.9	
	4-10	.7	1.8	1.2	1.1	1.2	1.7	.9	1.0	.0		9.4	
	11-21	.9	.8	.5	1.3	1.2	.9	.4	.7	.0		6.2	
	22+	.0	.2	1.0	.6	.4	.1	.1	.1	.0		2.3	
	TOT %	1.0	2.8	2.7	3.0	2.8	3.4	1.7	1.9	.0	1.5	20.7	
1/2<1	0-3	.0	.0	.0	.1	.0	.2	.0	.1	.0	.4	.7	
	4-10	*	.3	.1	.3	.1	*	*	.3	.0		1.1	
	11-21	.2	.1	.1	.3	.3	.1	*	.2	.0		1.4	
	22+	.1	*	.1	.4	*	*	.1	.1	.0		.8	
	TOT %	.3	.5	.2	1.0	.5	.3	.1	.6	.0	.4	3.9	
1<2	0-3	.2	.1	.0	.0	.1	.0	.1	.0	.0	.2	.7	
	4-10	.2	.4	.3	.2	.2	.2	.5	.7	.0		2.6	
	11-21	.2	.3	.1	.3	.2	.1	.2	.3	.0		1.7	
	22+	.1	.1	.3	.1	.2	*	.0	*	.0		.8	
	TOT %	.5	.9	.8	.7	.7	.3	.8	1.0	.0	.2	5.9	
2<5	0-3	.2	.1	.1	.0	.2	.0	.1	.1	.0	.8	1.5	
	4-10	.5	1.2	.7	.7	.5	.5	.5	.5	.0		5.1	
	11-21	.4	.3	.4	1.3	.8	.9	.9	.7	.0		5.6	
	22+	.1	.2	.6	1.1	.5	.2	.1	.2	.0		2.9	
	TOT %	1.1	1.9	1.7	3.0	2.0	1.6	1.6	1.5	.0	.8	15.2	
5<10	0-3	*	.3	.0	.2	.1	.2	.1	.0	.0	1.4	2.2	
	4-10	.7	1.0	.6	.7	1.4	1.0	1.7	.9	.0		8.0	
	11-21	.6	.8	.8	.8	2.1	2.0	1.3	1.6	.0		10.1	
	22+	.1	.2	.7	.6	.5	.6	.7	.3	.0		3.8	
	TOT %	1.5	2.3	2.1	2.3	4.1	3.8	3.7	2.8	.0	1.4	24.1	
10+	0-3	.4	.1	.1	.2	.1	.4	.2	*	.0	2.6	4.1	
	4-10	1.0	1.5	1.0	1.4	1.0	1.1	1.2	1.9	.0		10.1	
	11-21	1.0	.8	1.1	1.6	2.3	2.0	1.8	2.6	.0		13.1	
	22+	.3	.1	.2	.3	.4	.5	.3	.7	.0		2.9	
	TOT %	2.7	2.5	2.5	3.6	3.7	4.0	3.6	5.2	.0	2.6	30.3	
TOT OBS													1332
TOT PCT		7.2	10.8	10.1	13.5	13.7	13.5	11.5	12.9	.0	6.9	100.0	

MAY

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1908-1974AREA 0022 UNEKOTAN ISLAND
49.3N 152.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	23.2	1.4	2.3	5.5	17.7	24.6	4.1	.3	1.4	2.0	82.6	17.4	345
06009	22.7	2.0	3.4	5.1	15.9	22.0	6.4	1.0	1.4	2.4	82.4	17.6	295
12015	30.5	.4	1.9	6.1	14.5	17.9	2.7	.4	2.3	1.1	77.9	22.1	262
18021	31.2	.0	1.4	6.9	14.7	19.7	3.2	.5	1.4	.5	79.4	20.6	218
TOT	295	12	26	65	178	240	47	6	18	18	905	215	1120
PCT	26.3	1.1	2.3	5.8	15.9	21.4	4.2	.5	1.6	1.6	80.8	19.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	21.8	4.3	4.3	14.9	22.8	31.9	464
06009	21.3	3.7	6.6	16.4	21.0	31.1	409
12015	21.4	4.6	7.0	13.7	25.5	27.9	416
18021	23.1	2.7	5.3	13.3	26.0	29.6	338
TOT	355	63	94	238	386	491	1627
PCT	21.8	3.9	5.8	14.6	23.7	30.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	24.0	30.8	45.2	39.5	15.3	334
06009	22.4	30.3	46.2	38.3	15.5	290
12015	30.8	35.6	49.8	31.2	19.0	247
18021	31.3	33.2	44.4	36.4	19.2	214
TOT	288	350	503	398	184	1085
PCT	26.5	32.3	46.4	36.7	17.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
43/49	.0	.0	.0	.0	.0	.9	.0	.0	1	.9
40/44	.0	.0	.0	.0	.0	.0	.9	6.0	8	6.9
35/39	.0	.0	.0	.0	.9	2.6	6.0	46.6	65	56.0
30/34	.0	.0	.0	.0	.0	.9	1.7	29.3	37	31.9
25/29	.0	.0	.0	.0	.0	.0	.0	4.3	5	4.3
TOTAL	0	0	0	0	1	5	10	100	116	100.0
PCT	.0	.0	.0	.0	.9	4.3	8.6	86.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.9	.0	.0	.0	.0	.0	.0
.9	1.1	1.3	2.2	1.5	.0	.0	.0	.0	.0
4.5	3.2	2.8	7.3	11.2	9.1	10.1	4.3	.0	3.4
2.8	1.7	.0	1.9	5.6	3.0	5.6	5.2	.0	6.0
1.7	.9	.0	.0	.0	.0	.6	.2	.0	.9
9.9	6.9	4.1	12.3	18.3	12.1	16.4	9.7	.0	10.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	59	50	45	37	32	28	25	37.6	445
06009	54	50	46	37	32	30	27	37.7	391
12015	54	46	41	36	31	27	23	35.9	407
18021	57	48	42	36	30	27	23	35.8	332
TOT	59	50	45	36	32	28	23	36.8	1575

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	3.6	7.1	7.1	82.1	92	28		
06009	.0	.0	.0	5.3	7.9	86.8	94	38		
12015	.0	.0	.0	.0	8.3	91.7	96	24		
18021	.0	.0	.0	3.8	11.5	84.6	94	26		
TOT	0	0	1	5	10	100	94	116		

MAY

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1909-1974

TABLE 17

AREA 0022 ONEKOTAN ISLAND
49.3N 152.4EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	2	.1	.1
14/16	.0	.0	.0	.0	.0	.0	.2	.2	.1	.1	7	.1	.5
11/13	.0	.0	.0	.0	.0	.2	1.1	.5	.1	.1	25	.1	1.9
9/10	.0	.0	.0	.0	.0	1.5	.9	.2	.0	.0	33	.9	1.7
7/8	.0	.0	.0	.0	.6	1.8	.8	.1	.0	.0	41	.9	2.3
6	.0	.0	.0	.1	.8	1.1	.0	.0	.0	.0	25	.4	1.6
5	.0	.0	.0	.1	2.7	2.0	.2	.0	.0	.0	63	1.8	3.2
4	.0	.0	.0	.7	5.2	1.1	.2	.0	.0	.0	92	2.6	4.7
3	.0	.0	.0	1.1	3.3	.4	.0	.0	.0	.0	61	.9	3.9
2	.0	.0	.0	5.6	5.1	1.3	.2	.0	.0	.0	154	3.0	9.2
1	.0	.0	.1	4.0	3.3	.6	.1	.0	.0	.0	102	2.1	5.9
0	.0	.0	1.6	9.6	4.1	.2	.1	.0	.0	.0	197	4.7	10.9
-1	.0	.0	.8	3.3	1.9	.2	.0	.0	.0	.0	78	1.7	4.4
-2	.0	.0	2.4	5.0	2.1	.5	.1	.0	.0	.0	127	4.2	5.9
-3	.0	.1	1.0	2.0	.9	.1	.1	.0	.0	.0	52	1.7	2.5
-4	.0	.2	1.2	3.2	1.4	.1	.0	.0	.0	.0	77	2.3	3.8
-5	.0	.5	1.1	1.7	.6	.0	.0	.0	.0	.0	49	1.3	2.5
-6	.0	.2	.6	1.1	.2	.0	.0	.0	.0	.0	26	.6	1.4
-7/-8	.0	.1	.8	1.1	.5	.0	.0	.0	.0	.0	31	.8	1.7
-9/-10	.1	.2	.2	.3	.1	.0	.0	.0	.0	.0	11	.4	.5
-11/-13	.0	.0	.2	.1	.2	.1	.0	.0	.0	.0	8	.2	.5
-14/-16	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	2	.1	.1
-17/-19	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	14	127	496	417	141	50	14	2	2	1264	391	873
PCT	.1	1.1	10.0	39.2	33.0	11.2	4.0	1.1	.2	.2	100.0	30.9	69.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.3	.3	1.6	.0	.0	.0	.0	1.9
1-2	.1	1.5	1.2	.0	.0	.0	2.8	.3	2.1	1.2	.0	.0	.0	3.5
3-4	.0	.7	1.2	.2	.0	.0	2.1	.0	.4	.8	.3	.0	.0	1.5
5-6	.0	.0	.3	.4	.0	.0	.8	.0	.0	.6	.1	.0	.0	.7
7	.0	.1	.3	.0	.0	.0	.3	.0	.3	.2	.2	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	*	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.5	3.2	.9	.0	.0	6.8	.5	4.3	3.3	1.0	*	.0	9.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.3	.8	.1	.0	.0	.0	1.2
1-2	.0	1.1	1.5	.0	.0	.0	2.6	.4	1.1	1.7	.0	.0	.0	3.2
3-4	.0	.4	.7	.2	.0	.0	1.3	.0	.7	1.7	.4	.0	.0	2.7
5-6	.0	.1	.9	.4	.0	.0	1.5	.0	.1	1.4	.8	.1	.0	2.5
7	.0	.1	.4	1.0	.0	.0	1.4	.0	.0	.4	.9	.0	.0	1.4
8-9	.0	.1	.0	.3	.0	.0	.3	.0	*	.2	.3	.0	.0	.5
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.4	.0	.0	.5
12	.0	.0	.0	.3	.2	.0	.4	.0	.0	.0	*	.0	.0	.1
13-16	.0	.0	.0	.4	.3	.0	.7	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	3.5	2.5	.7	.0	9.3	.6	2.7	5.8	2.9	.3	.0	12.3

PERIOD: (OVER-ALL) 1963-1974

MAY
TABLE 18 (CONT)AREA 0022 DNEKUTAN ISLAND
49.3N 152.4E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.4	.3	.0	.0	.0	.8	.4	.5	.1	.0	.0	.0	1.0	
1-2	.1	1.0	1.9	.0	.0	.0	3.0	.3	1.8	1.5	.0	.0	.0	3.6	
3-4	.0	.5	3.0	.3	.0	.0	3.7	.0	.2	2.4	.1	.0	.0	2.7	
5-6	.0	.1	1.7	.7	.0	.0	2.6	.0	.1	1.7	.2	.1	.0	2.1	
7	.0	.0	1.3	.5	.0	.0	1.8	.0	.0	1.6	.4	.0	.0	2.1	
8-9	.0	.1	.8	.3	.0	.0	1.1	.0	.1	.3	.6	.1	.0	1.2	
10-11	.0	.1	.3	.3	.0	.0	.8	.0	.0	.2	.4	.0	.0	.6	
12	.0	.1	.0	.4	.0	.0	.5	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.4	9.2	2.5	.1	.0	14.4	.7	2.8	7.9	2.0	.3	.0	13.6	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.9	.3	.0	.0	.0	1.4	.1	.4	.4	.0	.0	.0	1.0	
1-2	.0	2.1	1.5	.0	.0	.0	3.7	.1	1.6	1.3	.0	.0	.0	3.0	
3-4	.0	1.3	1.5	.1	.0	.0	2.9	.0	1.0	3.0	.2	.0	.0	4.2	
5-6	.0	.1	1.0	.7	.0	.0	1.9	.0	.4	1.5	.5	.0	.0	2.3	
7	.0	.1	.6	.2	.1	.0	1.0	.0	.0	1.1	.9	.0	.0	2.0	
8-9	.0	.0	.0	.1	.1	.0	.2	.0	.0	.1	.3	.0	.0	.4	
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.2	.3	.0	.0	.4	
12	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	4.6	5.2	1.7	.2	.0	11.7	.3	3.4	7.6	2.3	.0	.0	13.7	91.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.1	5.8	1.3	.0	.0	.0	17.2	
1-2	1.5	12.3	11.9	.0	.0	.0	25.7	
3-4	.0	5.1	14.4	1.8	.0	.0	21.2	
5-6	.0	1.0	9.2	7.8	.3	.0	14.3	
7	.0	.5	5.8	4.2	.1	.0	10.6	
8-9	.0	.4	1.8	1.5	.5	.0	4.2	
10-11	.0	.1	1.0	1.9	.0	.0	3.0	
12	.0	.1	.1	1.4	.3	.0	1.9	
13-16	.0	.0	.1	1.0	.4	.0	1.5	
17-19	.0	.0	.0	.1	.1	.0	.3	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.6	25.3	45.6	15.8	1.6	.0	100.0	791

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	11.4	10.6	8.0	4.7	.7	.5	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	414	4
6-7	.0	1.7	4.2	4.1	3.2	3.0	1.5	1.1	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	218	6
8-9	.0	.2	1.2	1.2	1.7	1.1	.5	.7	1.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	8
10-11	.0	.7	.5	.5	.5	.1	.5	.0	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	36	7
12-13	.0	.0	2.0	.5	.8	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	5
>13	.0	.0	.0	1.4	.1	.5	.1	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	7
INDEX	5.1	5.5	6.6	3.7	2.3	1.0	1.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	285	3
TOTAL	65	217	279	215	147	71	49	24	33	7	3	0	0	0	0	0	0	0	0	1110	5
PCT	5.9	19.5	25.1	19.4	13.2	6.4	4.4	2.2	3.0	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1908-1974

JUNE

AREA 0022 ONEKOTAN ISLAND
49.3N 152.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.0	.0	2.1	.0	.0	.0	.0	5.1	.7	.0	43.8	1.2	2.1	.0	47.1
NE	6.9	.2	4.1	.0	.0	.0	.0	11.2	1.2	.0	34.8	2.1	2.1	.9	47.8
E	9.0	.3	6.0	.0	.4	.0	.0	15.3	2.4	.0	39.0	.3	.4	.3	42.2
SE	9.2	.1	6.5	.0	.0	.0	.0	15.0	1.6	.0	44.3	2.9	.5	.0	35.7
S	7.6	.3	4.5	.0	.0	.0	.0	12.4	2.5	.0	50.8	1.2	.6	.0	32.6
SW	2.7	.1	2.4	.0	.0	.0	.0	5.2	1.6	.0	45.3	1.8	.0	.0	46.1
W	1.8	.5	4.7	.0	.0	.0	.0	7.0	2.0	.0	43.6	2.3	.6	.0	44.5
NW	1.3	.0	.7	.0	.0	.0	.0	2.1	1.2	.0	47.7	1.9	1.2	.0	45.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	.0	1.9	.0	.0	.0	.0	2.8	1.9	.0	50.0	.0	.9	.0	44.3
TOT PCT	5.3	.2	4.0	.0	.1	.0	.0	9.3	1.8	.0	44.5	1.6	.8	.1	41.9
TOT OBS:	1768														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.9	.2	3.9	.0	.0	.0	.0	8.9	1.4	.0	45.3	3.0	1.2	.0	40.0
06009	5.9	.0	2.9	.0	.0	.0	.0	8.4	1.7	.0	39.2	.8	.8	.0	49.1
12015	5.0	.0	4.3	.0	.0	.0	.0	9.3	1.7	.0	45.0	1.3	.2	.2	42.2
18021	5.6	.5	4.8	.0	.3	.0	.0	10.7	2.3	.0	48.7	1.0	.8	.3	36.3
TOT PCT	5.3	.2	3.9	.0	.1	.0	.0	9.3	1.8	.0	44.4	1.6	.8	.1	42.1
TOT OBS:	1823														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)						48+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
		4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.0	4.9	2.8	.4	.0	.0		9.0	9.8	7.1	13.4	7.5	11.7	7.2	11.2	8.3	16.5	
NE	.9	4.2	2.8	.3	.0	.0		8.2	9.7	9.0	5.8	10.9	3.2	8.3	8.1	7.5	6.5	
E	.8	4.6	4.7	1.7	.2	.0		11.9	12.9	14.0	7.1	10.7	11.5	13.6	19.3	11.6	9.4	
SE	1.4	5.4	5.6	1.8	.1	.0		14.3	12.1	17.0	18.5	11.9	11.5	14.0	11.2	13.6	17.6	
S	.9	7.2	6.8	.8	.1	.0		15.7	11.7	14.3	18.3	17.5	23.2	13.4	14.1	13.3	18.8	
SW	.9	7.3	6.6	.6	.0	.0		15.4	10.8	17.7	10.9	16.0	14.6	16.3	15.1	14.2	12.3	
W	1.2	5.0	2.9	.3	.0	.0		9.4	9.1	7.4	9.4	9.2	11.7	8.1	15.1	10.0	10.3	
NW	.6	5.3	1.3	.5	.0	.0		9.9	10.1	7.9	12.9	9.5	9.9	9.9	6.8	13.4	8.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	6.2							6.2	.0	.0	3.6	6.8	2.7	9.3	5.2	8.1	.0	
TOT DBS	232	736	591	107	6	0	1672		10.3	326	112	322	111	335	96	258	112	
TOT PCT	13.9	44.0	35.3	6.4	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.7	5.3	.9	.1	.0		9.0	9.8	8.7	8.5	8.1	10.8
NE	3.1	4.0	1.0	.0	.0		8.2	9.7	8.2	8.9	8.2	7.2
E	3.5	4.9	3.0	.6	.0		11.9	12.9	12.3	10.9	13.5	10.9
SE	4.2	6.4	3.4	.3	.0		14.3	12.1	17.4	11.8	13.3	14.8
S	3.5	8.6	3.3	.2	.0		15.7	11.7	15.3	18.9	13.5	14.9
SW	4.5	8.3	2.5	.1	.0		15.4	10.8	16.0	15.6	16.0	13.6
W	4.0	4.3	1.1	.0	.0		9.4	9.1	7.9	9.9	9.7	10.1
NW	3.0	5.7	1.1	.1	.0		9.9	10.1	9.2	9.6	9.2	12.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.2						6.2	.0	5.0	5.8	8.4	5.7
TOT DBS	580	794	273	25	0	1672		10.3	438	433	431	370
TOT PCT	34.7	47.5	16.3	1.5	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1946-1974
(OVER-ALL) 1908-1974

JUNE

AREA 0022 ONEKOTAN ISLAND
49.3N 152.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (CNT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	5.0	6.8	44.5	35.6	7.5	.5	.0	10.6	100.0	438
04009	5.8	7.2	43.0	37.0	7.2	.0	.0	10.4	100.0	433
12015	8.4	7.2	44.8	34.6	4.9	.2	.0	9.8	100.0	431
18021	5.7	9.7	43.8	34.1	5.9	.8	.0	10.4	100.0	370
TOT	104	128	736	591	107	6	0	10.3		1672
PCT	6.2	7.7	44.0	35.3	6.4	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	.1	.5	6.2		7.4
NE	.5	.2	1.0	7.1		7.2
E	.4	.2	1.4	12.9		7.5
SE	.8	.2	1.0	13.2		7.4
S	1.1	.3	1.1	11.9		7.2
SW	3.0	.9	1.7	9.8		6.1
W	1.2	.4	.8	5.7		6.5
NW	1.0	.4	.6	7.5		6.9
VAR	.0	.0	.0	.0		.0
CALW	.9	.1	.5	5.4		6.8
TOT OBS	119	33	111	1022	1285	7.0
TOT PCT	9.3	2.6	8.6	79.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3000	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3999	4999	6499	7999			
N	2.4	.0	.1	.7	1.6	1.2	.2	.1	.2	.1	.6	
NE	3.0	.0	.1	.6	1.7	1.7	.5	.2	.1	.1	1.0	
E	5.5	.1	.4	.8	2.6	2.5	.6	.5	.4	.1	1.4	
SE	6.6	.1	.2	.3	3.2	2.2	.5	.4	.3	.0	1.4	
S	6.7	.2	.4	.3	1.8	2.1	.4	.2	.2	.0	2.0	
SW	6.2	.2	.2	.4	1.1	2.3	.4	.1	.2	.1	4.3	
W	4.0	.1	.1	.4	1.6	.7	.4	.1	.2	.0	1.8	
NW	.0	.0	.0	.0	1.1	1.7	.3	.2	.2	.1	1.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALW	3.1	.0	.0	.2	.8	1.0	.5	.2	.0	.0	1.1	
TOT OBS	516	6	20	50	197	199	50	25	24	4	192	1285
TOT PCT	40.3	.5	1.6	3.9	15.3	15.5	3.9	1.9	1.9	.3	14.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.2	1.9	2.3	2.3	2.3	2.3	2.3	2.3
>5000	1.8	3.4	4.1	4.1	4.1	4.1	4.1	4.1
>3500	3.3	6.6	7.7	7.8	8.0	8.0	8.0	8.0
>2000	8.9	19.6	22.7	22.9	23.4	23.7	23.8	23.8
>1000	12.8	29.5	36.0	36.9	37.9	38.4	38.7	38.7
>400	13.2	31.1	39.2	40.3	41.7	42.4	42.6	42.6
>300	13.4	32.2	40.5	41.8	43.3	44.0	44.3	44.3
>150	13.6	32.3	40.9	42.2	43.6	44.4	44.7	44.7
>0	13.6	33.1	44.3	48.0	51.8	62.1	82.3	85.2
TOTAL	174	425	568	616	664	797	1056	1093

TOTAL NUMBER OF OBS: 1283

PCT FREQ NH <5/8: 14.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	8.4	2.3	1.5	1.3	1.3	1.5	2.4	4.3	39.1	1399

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1908-1974

JUNE

AREA 0022 ONEKOTAN ISLAND
49.3N 152.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.2	.2	.4	.1	*	.1	.0	.1	1.2	
	NO PCP	2.6	1.9	3.1	5.6	6.2	5.3	2.6	3.6	.0	2.6	33.4	
	TOT %	2.6	1.9	3.3	5.8	6.6	5.4	2.6	3.7	.0	2.7	34.6	
1/2<1	PCP	.0	.0	.2	.2	.2	.1	.0	.0	.0	.0	.9	
	NO PCP	.3	.4	.5	.3	.6	.5	.3	.3	.0	.1	3.5	
	TOT %	.3	.4	.7	.5	.8	.6	.3	.3	.0	.1	4.3	
1<2	PCP	.1	.1	.3	.4	.4	.2	.1	*	.0	.1	1.6	
	NO PCP	.4	.3	.6	.3	.4	.4	.3	.3	.0	.1	3.0	
	TOT %	.5	.3	1.0	.7	.8	.5	.4	.3	.0	.1	4.6	
2<5	PCP	.1	.4	1.0	.9	.8	.2	.2	.1	.0	.1	3.8	
	NO PCP	.9	.6	1.4	1.0	.7	.7	1.1	1.1	.0	.3	7.9	
	TOT %	1.0	1.1	2.4	1.9	1.5	1.0	1.3	1.2	.0	.4	11.7	
5<10	PCP	.2	.4	.3	.6	.1	.1	.1	*	.0	.0	1.8	
	NO PCP	1.9	2.0	3.2	2.8	3.0	2.9	1.9	2.2	.0	1.0	20.9	
	TOT %	2.1	2.4	3.5	3.4	3.1	3.0	2.0	2.2	.0	1.0	22.8	
10+	PCP	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.2	
	NO PCP	1.5	2.0	2.5	2.7	2.8	4.5	2.2	1.8	.0	1.7	21.8	
	TOT %	1.5	2.0	2.6	2.8	2.8	4.5	2.3	1.8	.0	1.7	22.0	
TOT OBS													1731
TOT PCT													8.0 8.2 13.3 15.0 15.6 15.1 9.2 9.5 .0 6.0 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.4	.3	.3	.8	.4	.5	.1	.2	.0	2.8	5.9	
	4-10	1.6	1.2	1.2	2.2	3.4	3.1	1.6	2.1	.0		16.5	
	11-21	.9	.7	.8	2.4	3.0	2.0	1.1	1.4	.0		12.3	
	22+	*	.0	.2	.3	.2	.1	.1	.1	.0		1.1	
	TOT %	3.0	2.2	2.5	5.7	7.0	5.9	2.9	3.8	.0	2.8	35.8	
1/2<1	0-3	*	*	.1	*	.1	.0	.2	.1	.0	.1	.6	
	4-10	.1	.3	.2	*	.3	.4	.2	.0	.0		1.8	
	11-21	.1	.1	.3	.3	.2	.2	.1	.0	.0		1.3	
	22+	.0	.0	.1	.2	.1	.1	.0	.0	.0		.4	
	TOT %	.2	.4	.6	.5	.8	.6	.6	.2	.0	.1	4.1	
1<2	0-3	.2	.1	.0	*	*	.1	.1	.0	.0	.1	.7	
	4-10	.4	.1	.2	.3	.5	.2	.2	.2	.0		2.1	
	11-21	.2	.1	.4	.3	.2	.4	.2	.1	.0		1.9	
	22+	.0	.1	.1	.2	.1	.0	.0	.1	.0		.4	
	TOT %	.8	.5	.6	.8	.9	.6	.5	.4	.0	.1	5.2	
2<5	0-3	.1	.1	.1	.2	.1	.0	.2	.1	.0	.4	1.3	
	4-10	.5	.5	.6	.5	.8	.4	.8	1.0	.0		5.1	
	11-21	.6	.6	1.2	.9	.5	.5	.3	.3	.0		4.9	
	22+	*	.0	.3	.5	.2	.0	.0	.1	.0		1.1	
	TOT %	1.2	1.1	2.3	2.0	1.6	.9	1.3	1.6	.0	.4	12.4	
5<10	0-3	.1	.2	.2	.1	.1	.1	.2	.1	.0	1.1	2.1	
	4-10	1.4	1.2	1.2	1.2	1.1	1.2	1.1	1.4	.0		9.8	
	11-21	.5	.8	1.0	1.2	1.5	1.4	.6	.6	.0		7.6	
	22+	.2	.1	.7	.5	.3	.2	.0	.1	.0		2.0	
	TOT %	2.2	2.3	3.0	3.1	3.0	2.8	1.9	2.3	.0	1.1	21.6	
10+	0-3	.1	.1	.2	.3	.2	.2	.3	.1	.0	1.6	3.1	
	4-10	.7	1.0	1.1	1.3	1.0	1.8	1.0	.8	.0		8.7	
	11-21	.5	.4	.9	.8	1.6	2.2	.5	.8	.0		7.6	
	22+	.1	.2	.4	.2	*	.2	.2	.2	.0		1.4	
	TOT %	1.4	1.8	2.5	2.5	2.8	4.4	2.1	1.8	.0	1.6	20.9	
TOT OBS													1591
TOT PCT													8.0 8.3 11.5 14.6 16.0 15.2 9.3 10.1 .0 6.2 100.0

JUNE

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1908-1974AREA 0022 ONEKOTAN ISLAND
49.3N 152.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL DBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	34.3	.5	2.5	4.1	17.2	16.3	2.7	1.6	3.3	.5	83.1	16.9	367
06009	31.1	.5	1.9	3.8	15.0	19.1	6.0	2.7	2.5	.5	83.1	16.9	367
12015	48.1	.0	.9	3.4	13.3	13.6	2.5	1.9	.9	.0	84.6	15.4	324
18021	50.0	.7	.7	4.7	14.5	12.3	3.6	1.1	.4	.0	88.0	12.0	276
TOT	514	6	21	53	201	208	50	75	25	4	1127	207	1334
PCT	40.0	.4	1.6	4.0	15.1	15.6	3.7	1.9	1.9	.3	84.5	15.5	100.0

TABLE 11

PERCENT FREQUENCY VS8Y (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
(GMT)							
00003	32.5	4.0	4.2	13.3	23.8	22.2	504
06009	29.4	3.1	4.9	10.9	25.1	26.7	487
12015	40.1	5.0	3.1	13.7	19.8	18.3	481
18021	37.7	5.7	8.9	13.4	16.6	17.6	403
TOT	652	82	96	240	404	401	1875
PCT	34.8	4.4	5.1	12.8	21.5	21.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
(GMT)						
00003	34.0	40.9	53.2	32.9	13.9	359
06009	31.6	37.0	49.6	36.5	14.0	351
12015	50.0	54.5	65.3	21.4	13.3	308
18021	49.8	53.6	64.5	24.9	10.6	265
TOT	519	587	737	378	168	1283
PCT	40.5	45.8	57.4	29.5	13.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
55/99	.0	1.0	.0	.0	.0	1.0	.0	.0	2	1.9
50/34	.0	.0	.0	.0	1.0	.0	1.0	1.0	3	2.9
45/49	.0	.0	.0	1.0	1.9	1.0	1.9	9.6	16	15.4
40/44	.0	.0	.0	1.0	1.0	2.9	9.6	32.7	49	47.1
35/39	.0	.0	.0	.0	1.0	1.9	4.8	23.1	32	30.8
30/34	.0	.0	.0	.0	.0	.0	.0	1.9	2	1.9
TOTAL	0	1	0	2	5	7	18	71	104	100.0
PCT	.0	1.0	.0	1.9	4.8	6.7	17.3	68.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0
.0	.0	.0	.0	.7	1.2	.0	1.0	.0	.0
.0	1.0	1.0	1.0	3.1	2.6	4.6	.2	.0	1.9
3.4	1.2	2.9	9.6	15.6	6.0	5.3	.2	.0	2.9
2.6	3.1	4.3	5.5	5.3	5.0	1.7	2.2	.0	1.0
.0	.0	.0	1.0	.7	.2	.0	.0	.0	.0
7.0	5.3	8.2	17.1	25.5	15.1	12.5	3.6	.0	5.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
(GMT)									
00003	65	58	51	42	36	32	30	42.5	504
06009	61	58	52	43	38	32	27	43.1	484
12015	64	52	48	41	34	32	27	40.9	500
18021	57	50	47	41	34	30	28	40.4	415
TOT	65	57	50	41	34	32	27	41.8	1903

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
(GMT)										
00003	.0	5.9	8.8	2.9	23.5	58.8	87	34		
06009	.0	3.4	.0	3.4	24.1	69.0	89	29		
12015	.0	.0	4.2	20.8	4.2	70.8	91	24		
18021	.0	.0	5.3	5.3	10.5	78.9	91	19		
TOT	0	3	5	8	18	72	89	106		

JUNE

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1908-1974AREA 0022 ONEKOTAN ISLAND
49.3N 152.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	# FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	5	.0	.3
14/16	.0	.0	.0	.0	.0	.1	.1	.2	.2	.1	11	.2	.4
11/13	.0	.0	.0	.0	.0	.7	.6	.5	.2	.1	33	.8	1.2
9/10	.0	.0	.0	.0	.2	.6	.8	.3	.1	.1	33	.5	1.6
7/8	.0	.0	.0	.0	1.1	1.6	1.2	.1	.1	.0	65	1.7	2.3
5	.0	.0	.0	.2	.4	.8	.2	.1	.1	.0	28	.4	1.3
4	.0	.0	.1	2.7	4.2	3.1	.4	.0	.0	.0	100	2.7	3.6
3	.0	.0	.1	.5	2.2	.9	.3	.0	.0	.0	169	4.5	6.1
2	.0	.0	.7	4.1	6.2	3.6	.2	.0	.0	.0	63	1.8	2.1
1	.0	.0	.3	2.5	3.8	.6	.1	.1	.0	.0	239	6.6	8.4
0	.0	.1	2.0	5.4	5.4	1.7	.3	.0	.0	.0	119	3.0	4.4
-1	.0	.0	.4	1.6	2.1	.9	.1	.0	.0	.0	238	6.4	8.5
-2	.0	.2	1.6	3.6	2.6	1.1	.1	.0	.0	.0	81	2.1	2.9
-3	.0	.0	.4	1.4	1.1	.4	.0	.0	.0	.0	146	4.6	4.5
-4	.0	.2	.7	2.5	1.1	.4	.0	.1	.0	.0	54	1.7	1.6
-5	.0	.1	1.0	1.0	.8	.2	.0	.0	.0	.0	81	2.7	2.4
-6	.0	.2	.1	.7	.2	.1	.1	.0	.0	.0	49	1.4	1.7
-7/-8	.1	.2	.6	.7	.5	.1	.1	.0	.0	.0	23	.9	.5
-9/-10	.1	.2	.3	.2	.2	.0	.0	.0	.0	.0	35	1.4	.8
-11/-13	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	18	.7	.4
-14/-16	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	9	.3	.2
TOTAL	3	23	136	555	315	85	22	6	1602	44.5	55.5	713	889
PCT	.2	1.4	8.5	27.8	34.6	19.7	5.3	1.4	.7	.4	100.0	44.5	55.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.1	.0	.0	.0	1.2	.3	1.4	.1	.0	.0	.0	1.9
1-2	.0	.8	1.1	.0	.0	.0	1.9	.1	1.9	1.0	.0	.0	.0	3.0
3-4	.0	.9	1.2	.3	.0	.0	2.4	.0	.3	1.0	.0	.0	.0	1.3
5-6	.0	.1	.4	.2	.0	.0	.6	.0	.1	.6	.1	.0	.0	.9
7	.0	.0	.2	.2	.0	.0	.4	.0	.1	.5	.0	.0	.0	.6
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.6	3.1	.7	.0	.0	6.7	.4	3.8	3.7	.4	.0	.0	8.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.9	.1	.0	.0	.0	1.7	.6	.9	.6	.0	.0	.0	2.2
1-2	.0	1.1	1.1	.0	.0	.0	2.3	.0	1.7	2.1	.0	.0	.0	3.7
3-4	.0	.4	1.6	.2	.0	.0	2.3	.0	.9	2.6	.4	.0	.0	3.8
5-6	.0	.3	1.4	.6	.1	.0	2.5	.0	.1	1.5	.7	.0	.0	2.2
7	.0	.1	.6	.8	.1	.0	1.6	.0	.0	.4	.7	.0	.0	1.2
8-9	.0	.0	.1	.3	.1	.0	.6	.0	.0	.1	.3	.0	.0	.5
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.1	.1	.4	.0	.0	.7	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.0	5.2	2.8	.3	.0	12.0	.6	3.5	7.3	2.6	.0	.0	14.1

PERIOD: (OVER-ALL) 1963-1974

JUNE

AREA 0022 ONEKOTAN ISLAND
49.3N 152.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.6	.5	.0	.0	.0	2.2	.3	2.6	.4	.0	.0	.0	3.3
1-2	.0	2.1	2.1	.0	.0	.0	4.2	.1	2.8	3.0	.0	.0	.0	6.0
3-4	.0	1.6	3.7	.2	.0	.0	5.4	.1	.9	3.1	.2	.0	.0	4.3
5-6	.0	.3	1.5	.2	.0	.0	2.0	.0	*	2.5	.5	.0	.0	3.0
7	.0	.0	.5	.5	.1	.0	1.1	.0	.4	.4	*	.0	.0	.8
8-9	.0	.1	.3	.3	.0	.0	.7	.0	.1	.2	.2	.0	.0	.4
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.7	8.8	1.2	.1	.0	15.9	.6	6.7	9.7	.8	.0	.0	17.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.1	.0	.0	.0	.0	1.4	.2	.8	.2	.0	.0	.0	1.2	
1-2	.1	1.7	1.0	.0	.0	.0	2.8	.0	1.6	1.5	.0	.0	.0	3.2	
3-4	.0	.2	2.3	.1	.0	.0	2.6	.0	.5	1.6	.2	.0	.0	2.2	
5-6	.0	.1	.7	.4	.0	.0	1.2	.0	.1	.7	.1	.0	.0	.9	
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.3	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.2	4.1	.6	.0	.0	8.1	.2	3.0	4.2	.8	.0	.0	8.1	91.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.5	10.2	2.1	.0	.0	.0	23.8	
1-2	.4	15.8	12.9	.0	.0	.0	27.1	
3-4	.1	5.5	17.1	1.6	.0	.0	24.4	
5-6	.0	1.1	9.4	2.8	.1	.0	13.4	
7	.0	.6	3.0	2.5	.2	.0	6.3	
8-9	.0	.2	1.1	1.2	.1	.0	2.7	
10-11	.0	.0	.2	.5	.0	.0	.7	
12	.0	.0	.1	.4	.0	.0	.5	
13-16	.0	.1	.1	.9	.0	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.9	31.7	46.1	9.9	.5	.0	100.0	812

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	14.8	14.9	6.0	2.2	1.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	461	3
6-7	.0	2.7	4.6	4.9	2.7	1.0	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	188	5
7-9	.4	.4	1.5	1.7	2.0	.7	.3	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	6
10-11	.0	1.2	.6	.5	.4	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	4
12-13	.0	.0	.7	.4	.2	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5
>13	.0	.0	.0	.2	.2	.1	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	7	9
INDET	7.7	6.0	7.8	4.3	1.8	1.1	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	331	3
TOTAL	108	283	340	203	108	46	20	6	12	1	1	0	0	0	0	0	0	0	0	1128	4
PCT	9.6	25.1	30.1	18.0	9.6	4.1	1.8	.5	1.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1870-1974

JULY

TABLE 1

AREA 0022 ONEKOTAN ISLAND
19.4N 152.2E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE																OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	CRPL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THUR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA						
N	1.8	.6	1.8	.0	.0	.0	.0	4.2	1.5	.0	50.1	1.2	.0	.6	42.4						
NE	6.2	.0	3.9	.0	.0	.0	.0	10.1	3.7	.0	40.7	1.5	.6	.0	43.4						
E	7.8	.0	4.9	.0	.0	.0	.0	12.8	1.4	.0	50.3	3.3	.4	.0	51.1						
SE	7.7	.0	4.0	.0	.0	.0	.0	12.5	.5	.1	48.5	1.3	.5	.0	36.6						
S	5.9	.0	3.2	.0	.0	.0	.0	8.7	.4	.0	50.6	.6	.4	.0	39.2						
SW	3.4	.0	2.5	.0	.0	.0	.0	5.8	.0	.0	51.2	2.0	1.6	.0	39.4						
W	1.7	.0	1.4	.0	.0	.0	.0	3.1	.7	.0	48.9	1.4	2.1	.0	43.9						
NW	2.7	.0	1.2	.0	.0	.0	.0	2.8	.6	.0	49.5	1.9	1.3	.0	43.9						
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0						
CALM	1.6	.0	2.3	.0	.0	.0	.0	3.9	.0	.0	43.8	.0	.8	.0	51.6						
TOT PCT	4.6	.1	2.9	.0	.0	.0	.0	7.6	1.1	.1	46.0	1.5	.8	.1	42.9						
TOT OBS:	1706																				

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	4.0	.2	2.6	.0	.0	.0	.0	6.9	1.6	.2	48.6	1.6	.8	.0	40.3
0600	5.4	.0	1.3	.0	.0	.0	.0	6.7	.2	.0	42.9	.9	1.3	.0	48.1
1200	6.0	.0	3.0	.0	.0	.0	.0	8.8	1.2	.0	47.2	1.8	.2	.0	40.6
1800	2.5	.3	5.6	.0	.0	.0	.0	8.4	1.1	.0	46.2	1.7	.8	.0	41.8
TOT PCT	4.6														
TOT OBS:	1753	.1	3.0	.0	.0	.0	.0	7.6	1.0	.1	46.3	1.5	.8	.1	42.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.5	5.1	2.8	.6	.0	.0		10.0	9.8	9.8	10.9	9.1	8.9	9.0	12.8	11.7	9.6	
NE	2.0	6.4	2.2	1.0	.1	.0		11.8	9.3	9.1	11.8	13.1	12.6	12.4	14.3	10.6	14.1	
E	1.0	6.2	4.3	.7	.2	.0		12.6	11.4	14.7	13.5	12.7	13.8	12.1	9.8	10.5	12.8	
SE	1.2	5.9	4.9	1.1	.0	.0		13.2	11.6	9.8	20.0	15.0	10.3	11.7	13.4	12.5	18.1	
S	.9	7.0	5.9	.9	.0	.0		14.7	11.5	13.0	12.4	13.7	14.7	19.0	15.5	14.6	12.5	
SW	1.3	7.1	5.5	.6	.0	.0		14.4	10.4	17.7	14.3	12.6	16.1	13.9	11.9	11.6	19.1	
W	.7	4.7	2.3	.2	.1	.0		7.8	9.7	9.9	8.8	7.2	6.9	6.9	6.0	9.3	4.0	
NW	.8	5.0	3.1	.2	.0	.0		9.2	10.0	9.9	7.4	9.3	12.2	8.7	10.4	9.1	6.6	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.3							.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	746	741	488	82	5	0	1562	6.3	9.9	6.1	18	7.2	4.6	6.2	6.0	10.4	3.2	
TOT PCT	15.7	47.4	31.2	3.2	.3	.0		100.0		297	131	291	109	305	84	251	96	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	3.8	4.8	1.3	.1	.0			10.0	9.8	10.2	9.1	9.8	11.1
NE	5.4	4.5	1.7	.1	.0			11.8	9.3	9.9	13.0	12.8	11.5
E	3.7	6.3	2.2	.2	.1			12.6	11.4	14.4	13.0	11.6	11.1
SE	3.5	6.7	2.6	.3	.0			13.2	11.6	12.9	13.8	12.1	14.0
S	3.5	7.9	3.1	.3	.0			14.7	11.5	12.8	13.9	18.3	14.1
SW	4.0	8.2	2.1	.4	.0			14.4	10.4	16.6	13.6	13.5	13.6
W	2.8	4.0	1.1	.1	.0			7.8	9.7	9.6	7.1	6.7	7.8
NW	3.3	4.3	1.6	.1	.0			9.2	10.0	9.2	10.1	9.1	8.4
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	6.3							6.3	.0	4.4	6.5	6.2	8.4
TOT OBS	567	728	244	21	2	1562		9.9		428	400	389	345
TOT PCT	36.3	46.6	15.6	1.3	.1			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1870-1974

JULY

AREA 0022 ONEKOTAN ISLAND
49.4N 152.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+4	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	4.4	8.9	48.6	32.5	5.4	.2	.0	10.3	100.0	428
0600	6.5	9.0	40.8	36.3	7.3	.3	.0	10.6	100.0	400
1200	6.2	10.3	48.6	29.6	4.6	.6	.0	9.6	100.0	389
1800	8.4	9.9	52.5	25.8	3.5	.0	.0	8.9	100.0	345
TOT	98	148	741	488	82	5	0	9.9		1562
PCT	6.3	9.5	47.4	31.2	5.2	.3	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	1.1	.2	1.1	7.5		6.9
NE	.5	.5	1.5	9.4		7.2
E	.2	.3	1.6	9.3		7.5
SE	.5	.3	1.3	9.8		7.4
S	1.0	.5	.9	11.1		7.2
SW	1.8	.6	1.4	9.7		6.6
W	.9	.3	1.4	6.4		6.9
NW	1.3	.3	1.5	6.9		6.6
VAR	.0	.0	.0	.0		.0
CALM	.6	.7	1.5	6.3		6.9
TOT OBS	95	44	151	938	1228	7.0
TOT PCT	7.7	3.6	12.3	76.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	4.2	.1	.1	.2	1.5	1.8	.4	.1	.0	.1	1.5	
NE	3.4	.1	.2	.7	2.7	2.6	.6	.0	.1	.2	1.4	
E	2.6	.2	.3	.7	2.7	2.8	.8	.0	.1	.2	.9	
SE	5.1	.1	.2	1.2	1.4	2.0	.6	.2	.2	*	.9	
S	6.3	.1	.1	.5	1.6	2.1	.7	.0	.1	.1	2.0	
SW	5.5	.1	.4	.6	1.5	1.6	.4	.1	.3	.0	3.0	
W	3.7	.2	.1	.4	.7	1.3	.4	.0	.4	.1	1.6	
NW	3.9	.0	*	.1	1.3	2.0	.4	.0	.1	.2	1.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.4	.0	.0	.2	.7	1.5	1.0	.1	.2	.0	1.8	
TOT OBS	469	9	19	57	172	217	65	5	20	12	183	1228
TOT PCT	38.2	.7	1.5	4.6	14.0	17.7	5.3	.4	1.6	1.0	14.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>8500	1.5	2.4	2.5	2.6	2.6	2.8	2.8	2.8
>9000	1.7	2.8	2.9	3.0	3.0	3.2	3.2	3.2
>3500	4.0	7.4	8.0	8.2	8.2	8.5	8.5	8.5
>2000	12.5	22.6	24.4	24.9	25.2	25.9	26.2	26.2
>1000	14.7	30.6	36.6	37.6	38.2	39.4	39.8	39.8
>600	15.8	33.1	40.0	41.2	41.8	43.3	43.9	43.9
>300	16.1	33.7	41.4	42.6	43.2	44.9	45.4	45.4
>150	16.2	34.0	42.0	43.2	43.9	45.7	46.3	46.3
>0	16.4	35.1	44.5	47.3	50.4	61.5	82.7	85.2
TOTAL	202	431	547	581	619	755	1016	1046

TOTAL NUMBER OF OBS: 1228

PCT FREQ NH <5/8 14.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
6.1	1.7	3.3	1.6	2.0	1.6	3.3	5.6	38.2	36.6	1318

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1870-1974

JULY

TABLE 8

AREA 0022 ONEKOTAN ISLAND
49.4N 152.2E

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.5	.4	.6	.4	.3	.0	.0	.0	.1	2.4	
	NO PCP	4.1	4.0	2.6	4.1	5.3	6.0	3.0	3.6	.0	2.5	35.3	
	TOT %	4.1	4.5	3.1	4.7	5.7	6.3	3.0	3.6	.0	2.6	37.7	
1/2<1	PCP	.0	.0	.1	.1	.1	.0	.0	.0	.0	.1	.2	
	NO PCP	.2	.5	.4	.7	.6	.7	.5	.2	.0	.1	3.9	
	TOT %	.2	.5	.5	.7	.7	.7	.5	.2	.0	.1	4.2	
1<2	PCP	.0	.1	.1	.3	.1	.2	.1	.0	.0	.0	.9	
	NO PCP	.2	.5	.2	.6	.4	.4	.4	.1	.0	.1	2.9	
	TOT %	.2	.6	.3	.9	.4	.6	.5	.1	.0	.1	3.8	
2<5	PCP	.2	.4	.5	.4	.3	.1	.1	.1	.0	.1	2.3	
	NO PCP	.7	1.2	1.1	.9	1.1	1.0	1.0	.9	.0	.5	8.1	
	TOT %	.9	1.6	1.6	1.3	1.4	1.0	1.1	1.0	.0	.5	10.4	
5<10	PCP	.1	.3	.4	.2	.3	.3	.1	.1	.0	.0	1.7	
	NO PCP	1.5	2.1	2.7	2.2	2.9	2.6	1.3	1.7	.0	1.0	17.9	
	TOT %	1.6	2.3	3.1	2.4	3.2	2.9	1.3	1.8	.0	1.0	19.6	
10+	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1	
	NO PCP	2.6	3.1	3.1	1.9	2.4	3.4	2.1	2.5	.0	3.1	24.2	
	TOT %	2.6	3.1	3.1	2.0	2.4	3.4	2.1	2.5	.0	3.1	24.3	
TOT OBS													1671
TOT PCT		9.7	12.6	11.7	12.0	13.9	14.9	8.6	9.3	.0	7.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.8	1.3	.4	.6	.3	.9	.3	.4	.0	2.4	7.5	
	4-10	2.2	2.5	2.2	2.0	3.1	3.8	1.9	2.2	.0		20.0	
	11-21	1.4	.6	.9	2.0	2.2	2.7	.8	1.5	.0		12.1	
	22+	.2	.4	.1	.4	.5	.3	.1	.1	.0		2.0	
	TOT %	4.7	4.8	3.7	5.0	6.1	7.7	3.1	4.2	.0	2.4	41.6	
1/2<1	0-3	.*	.1	.2	.1	.2	.1	.*	.*	.0	.1	.8	
	4-10	.2	.3	.3	.3	.4	.4	.3	.2	.0		2.2	
	11-21	.1	.*	.2	.3	.3	.2	.1	.*	.0		1.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.4	.6	.7	.8	.7	.4	.2	.0	.1	4.1	
1<2	0-3	.0	.2	.1	.1	.1	.0	.0	.1	.0	.1	.7	
	4-10	.2	.4	.3	.5	.3	.3	.2	.1	.0		2.2	
	11-21	.1	.1	.*	.3	.2	.3	.1	.0	.0		1.0	
	22+	.1	.0	.0	.0	.0	.0	.1	.0	.0		.1	
	TOT %	.4	.6	.4	.9	.5	.6	.4	.2	.0	.1	4.1	
2<5	0-3	.1	.2	.1	.1	.1	.1	.2	.*	.0	.3	1.2	
	4-10	.3	.8	.4	.7	.5	.6	.4	.1	.0		3.8	
	11-21	.5	.3	1.1	.6	.6	.3	.3	.6	.0		4.2	
	22+	.0	.2	.1	.1	.1	.1	.0	.0	.0		.5	
	TOT %	.9	1.4	1.7	1.4	1.3	1.1	.9	.8	.0	.3	9.8	
5<10	0-3	.2	.2	.0	.1	.2	.1	.1	.*	.0	1.0	1.9	
	4-10	.8	.8	1.1	1.0	1.4	1.4	.5	1.0	.0		8.1	
	11-21	.3	.6	1.4	1.0	1.6	.8	.5	.6	.0		6.7	
	22+	.1	.4	.4	.4	.1	.2	.1	.1	.0		1.7	
	TOT %	1.3	2.1	2.9	2.5	3.3	2.4	1.1	1.8	.0	1.0	18.4	
10+	0-3	.2	.1	.2	.1	.1	.1	.1	.1	.0	2.3	3.3	
	4-10	1.3	1.7	1.7	1.1	1.4	.9	1.4	1.5	.0		10.9	
	11-21	.7	.6	.9	.6	1.2	1.4	.7	.5	.0		6.5	
	22+	.3	.2	.3	.2	.2	.1	.0	.*	.0		1.1	
	TOT %	2.5	2.6	3.1	1.9	2.8	2.5	2.2	2.1	.0	2.3	21.9	
TOT OBS													1483
TOT PCT		10.0	12.0	12.4	12.4	14.6	15.0	8.1	9.3	.0	6.2	100.0	

JULY

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1870-1974AREA 0022 ONEKOTAN ISLAND
49.4N 152.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL OBS	NH <5/8 ANY HGT	TOTAL OBS
00003	35.7	1.1	1.1	5.1	17.7	19.3	3.8	.8	3.5	.5	88.5	11.5	373
06009	34.1	.0	2.3	3.2	11.7	21.3	5.2	.3	1.2	1.5	80.8	19.2	343
12015	45.4	1.0	1.3	3.6	11.9	12.6	5.3	.3	1.3	1.3	84.1	15.9	302
18021	38.9	1.2	1.2	6.6	13.2	17.1	6.6	.0	.0	.8	85.6	14.4	257
TOT	487	10	19	58	176	227	65	5	21	13	1081	194	1275
PCT	38.2	.8	1.5	4.5	13.8	17.8	5.1	.4	1.6	1.0	84.8	15.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	40.4	3.7	4.9	10.3	15.5	25.2	515
06009	36.9	5.0	2.3	9.5	20.5	25.9	483
12015	42.0	4.4	5.4	9.4	19.8	19.0	459
18021	42.4	3.6	3.9	11.6	18.9	19.6	387
TOT	743	77	76	187	343	418	1844
PCT	40.3	4.2	4.1	10.1	18.6	22.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50yd	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	37.1	45.2	59.0	31.7	9.3	356
06009	34.1	40.4	48.8	35.6	15.6	334
12015	45.7	51.9	63.5	24.9	11.6	293
18021	40.0	44.9	58.8	29.0	12.2	245
TOT	478	558	703	376	149	1228
PCT	38.9	45.4	57.2	30.6	12.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
69/69	.0	.0	.5	.0	.0	.0	.0	.0	1	.5
55/59	.0	.0	.0	.0	.0	.0	.5	1.5	4	2.0
50/54	.0	.0	.0	.0	.0	1.0	3.1	12.8	33	16.8
45/49	.0	.0	.0	.5	.5	1.0	6.6	46.9	109	55.6
40/44	.0	.0	.0	.0	.0	.0	2.6	20.9	46	23.5
35/39	.0	.0	.0	.0	.0	.0	.0	1.5	3	1.5
TOTAL	0	0	1	1	1	4	25	164	196	100.0
PCT	.0	.0	.5	.5	.5	2.0	12.8	83.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.5	.0	.0
.0	.5	.5	.5	.0	.5	.0	.0	.0	.0
2.2	1.1	.8	1.0	3.6	3.8	1.8	2.0	.0	.5
4.1	5.2	11.2	9.1	8.5	5.6	3.6	5.7	.0	2.6
3.3	3.7	3.3	4.1	1.8	3.2	1.4	1.7	.0	1.0
.0	.0	.5	.5	.5	.0	.0	.0	.0	.0
9.6	10.6	16.3	15.2	14.4	13.1	6.8	9.9	.0	4.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	74	63	58	48	41	37	34	48.3	522
06009	70	64	59	48	41	39	34	48.9	486
12015	66	63	54	46	39	36	34	46.5	464
18021	73	64	55	46	39	37	36	46.4	403
TOT	74	64	57	47	40	37	34	47.6	1875

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.6	.0	3.3	18.0	77.0	92	61
06009	.0	1.7	.0	1.7	13.8	82.8	93	58
12015	.0	.0	.0	2.6	7.7	89.7	95	39
18021	.0	.0	2.6	.0	7.9	89.5	96	38
TOT	0	2	1	4	25	164	94	196

JULY

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1870-1974AREA 0022 ONEKOTAN ISLAND
49.4N 152.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	NO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	2	.1	.1
20/22	.0	.0	.0	.0	.0	.0	.1	.3	.1	.1	9	.3	.3
17/19	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	2	.0	.1
14/16	.0	.0	.0	.0	.2	.5	.3	.2	.1	.0	18	.6	.6
11/13	.0	.0	.0	.1	.6	.6	.6	.3	.0	.0	39	1.0	1.5
9/10	.0	.0	.0	.9	.5	.7	.5	.2	.1	.0	46	1.3	1.7
7/8	.0	.0	.1	1.2	.9	1.1	.5	.3	.0	.0	62	2.3	1.7
6	.0	.0	.1	.4	.3	.3	.0	.0	.0	.0	16	.4	.6
5	.0	.0	.5	2.8	1.8	.8	.2	.5	.0	.0	100	3.0	3.4
4	.0	.0	1.8	3.2	2.3	1.2	.3	.3	.0	.0	139	4.5	4.5
3	.0	.0	.6	1.5	2.5	.3	.0	.0	.0	.0	75	2.8	2.1
2	.0	.5	2.5	4.3	3.9	.8	.1	.0	.0	.0	187	5.7	6.4
1	.0	.1	1.0	4.0	1.8	.5	.0	.0	.1	.0	115	2.3	5.2
0	.1	1.8	3.1	7.0	3.6	.6	.3	.0	.1	.0	258	8.3	8.4
-1	.0	.1	1.7	3.1	1.5	.2	.0	.0	.0	.0	103	3.0	3.7
-2	.1	.6	1.9	4.8	1.0	.2	.0	.1	.0	.0	133	3.8	4.8
-3	.0	.4	.6	1.4	.6	.0	.0	.0	.0	.0	47	1.5	1.5
-4	.1	.4	1.7	1.6	.5	.1	.1	.0	.0	.0	70	2.1	2.4
-5	.0	.3	1.0	1.5	.3	.1	.1	.0	.0	.0	51	1.3	2.0
-6	.0	.1	.3	.4	.1	.0	.0	.0	.0	.0	15	.5	.5
-7/-8	.3	.3	.9	.9	.1	.0	.0	.0	.0	.0	38	1.4	1.1
-9/-10	.0	.0	.3	.3	.2	.1	.0	.0	.0	.0	13	.4	.5
-11/-13	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	9	.4	.2
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	3	.1	.1
TOTAL	9		282		355		48		9		1550	727	823
PCT	.6	3.0	16.2	39.2	22.9	8.2	3.1	2.1	.6	.1	100.0	46.9	53.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
1	.4	1.3	.0	.0	.0	.0	1.7	.7	1.1	.3	.0	.0	.0	2.1
1-2	.3	2.2	1.4	.0	.0	.0	3.9	.1	1.9	.7	.0	.0	.0	2.6
3-4	.0	.5	1.8	.2	.0	.0	2.5	.0	.9	1.4	.2	.0	.0	2.4
5-6	.1	.2	.5	.2	.0	.0	1.0	.*	.1	.7	1.0	.0	.0	1.8
7	.0	.0	.2	.4	.0	.0	.6	.0	.3	.2	.0	.0	.0	.4
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.1	.2	.0	.0	.0	.4	.0	.0	.*	.2	.0	.0	.2
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	.0	.0	.0	.*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.3	4.2	1.0	.0	.0	10.3	.8	4.2	3.3	1.5	.0	.0	9.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
1	.2	1.4	.1	.0	.0	.0	1.7	.2	.6	.1	.0	.0	.0	.9
1-2	.1	2.1	1.6	.0	.0	.0	3.8	.0	2.1	1.7	.0	.0	.0	3.8
3-4	.0	.8	3.2	.0	.0	.0	4.0	.0	1.0	1.6	.4	.0	.0	3.0
5-6	.0	.0	1.0	.1	.1	.0	1.2	.0	.0	2.2	.7	.0	.0	2.9
7	.0	.1	.1	.5	.1	.0	.9	.0	.*	.2	.4	.0	.0	.6
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.1	.0	.2	.0	.0	.3
10-11	.0	.0	.1	.5	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.*	.0	.0	.0	.*
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.4	6.4	1.2	.3	.0	12.6	.2	3.8	5.9	1.7	.0	.0	11.6

PERIOD: (OVER-ALL) 1963-1974

JULY

TABLE 18 (CONT)

AREA 0022 ONEKOTAN ISLAND
49.4N 152.2E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.4	1.2	.0	.0	.0	.0	1.6	.4	1.4	.4	.0	.0	.0	2.2	
1-2	.0	2.3	2.9	.0	.0	.0	5.1	.1	3.3	1.6	.0	.0	.0	5.0	
3-4	.0	2.0	3.9	.4	.0	.0	6.2	.0	1.4	3.0	.1	.0	.0	4.5	
5-6	.0	.2	1.3	.2	.0	.0	1.7	.0	.2	1.0	.2	.0	.0	1.4	
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.4	.2	.0	.0	.6	.0	.0	.2	.2	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	5.8	8.7	.8	.0	.0	15.7	.5	6.2	6.3	.6	.0	.0	13.7	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.9	.1	.0	.0	.0	2.3	.3	1.6	.1	.0	.0	.0	2.0	
1-2	.0	2.7	1.0	.0	.0	.0	3.7	.0	1.3	.9	.0	.0	.0	2.2	
3-4	.0	.2	1.1	.0	.0	.0	1.3	.0	.4	2.2	.3	.0	.0	2.9	
5-6	.0	.3	.8	.0	.0	.0	1.0	.0	.3	.7	.0	.0	.0	1.1	
7	.0	.1	.1	.0	.1	.0	.4	.0	.1	.4	.0	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	5.2	3.1	.0	.1	.0	8.7	.3	3.7	4.6	.3	.0	.0	9.0	91.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.4	10.5	1.2	.0	.0	.0	23.1	
1-2	.7	17.7	11.8	.0	.0	.0	30.1	
3-4	.0	7.2	18.1	1.6	.0	.0	26.8	
5-6	.1	1.3	8.1	2.4	.1	.0	12.1	
7	.0	.7	1.7	1.3	.3	.0	4.0	
8-9	.0	.1	.9	.9	.0	.0	2.0	
10-11	.0	.1	.4	.7	.0	.0	1.2	
12	.0	.0	.3	.0	.0	.0	.3	
13-16	.0	.1	.1	.0	.0	.0	.3	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.2	37.7	42.6	7.0	.4	.0	100.0	753

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<5	2.3	14.5	14.5	6.8	2.5	.3	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	474	3
5-7	.4	2.2	4.6	4.8	2.1	1.2	.5	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	185	5
8-9	.3	.5	1.5	2.2	1.2	1.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	5
10-11	.0	1.5	.7	.4	.3	.3	.1	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	42	5
12-13	.0	.0	.6	.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	5
>13	.0	.0	.0	.2	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
INDET	8.7	6.3	8.0	4.5	1.4	.4	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	342	3
TOTAL	134	286	343	221	91	38	18	6	4	2	1	0	0	0	0	0	0	0	0	1146	4
PCT	11.7	25.0	29.9	19.3	7.9	3.3	1.6	.7	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1889-1974AREA 0022 ONEKOTAN ISLAND
49.2N 152.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.4	.0	3.5	.0	.0	.0	.0	4.9	.8	.0	33.2	1.6	.8	.0	59.8
NE	6.1	.8	7.3	.0	.0	.0	.0	13.5	2.4	.0	35.0	1.6	.8	1.6	45.1
E	11.6	.0	3.8	.0	.0	.0	.0	15.4	3.3	.0	48.0	1.9	.7	.0	30.7
SE	8.6	.6	3.3	.0	.0	.0	.0	12.5	3.2	.0	56.0	1.4	.7	.0	25.6
S	9.8	.0	5.0	.0	.0	.0	.0	14.8	1.2	.4	40.9	2.5	.7	.0	39.5
SW	6.0	.8	3.9	.0	.0	.0	.0	11.6	.8	.4	47.5	.9	.5	.4	37.9
W	2.7	.0	2.5	.0	.0	.0	.0	4.7	.0	.0	40.3	1.0	.0	.0	53.9
NW	.7	.0	1.3	.0	.0	.0	.0	2.0	.0	.0	36.7	1.7	.5	.0	59.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	3.1	.0	.0	.0	.0	3.1	.0	.0	50.0	1.0	2.0	.0	43.9
TOT PCT	5.6	.3	3.7	.0	.0	.0	.0	9.4	1.2	.1	43.1	1.4	.7	.3	43.8
TOT OBS:	1516														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST PCPN SNOW	NO SIG WEA
00003	5.3	.0	4.0	.0	.0	.0	.0	9.0	.7	.0	45.9	1.3	.9		.7	41.5
06009	4.6	.0	1.9	.0	.0	.0	.0	6.3	1.7	.0	43.8	2.4	1.0		.2	44.5
12015	5.4	.5	4.9	.0	.0	.0	.0	10.9	1.3	.5	41.3	1.0	.0		.3	44.7
18021	6.7	.6	3.5	.0	.0	.0	.0	10.8	1.3	.0	41.9	.6	.6		.0	44.8
TOT PCT	5.4	.3	3.6	.0	.0	.0	.0	9.1	1.2	.1	43.4	1.4	.6		.3	43.8
TOT OBS:	1568															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	4.4	2.5	.4	.0	.0		8.1	10.0		5.3	9.7	10.5	11.6	9.2	6.5	6.5	4.7
NE	.6	4.8	2.6	.3	.0	.0		8.3	10.1		10.4	8.7	6.3	9.1	6.1	11.6	9.0	8.9
E	.8	2.8	1.8	.4	.0	.0		5.9	10.7		5.4	4.6	5.8	4.5	6.9	8.3	4.9	7.9
SE	1.0	4.3	5.0	.9	.1	.0		11.2	12.2		11.7	13.5	11.2	9.1	9.3	13.0	11.4	13.9
S	1.0	5.3	7.9	2.5	.3	.0		17.0	14.1		19.0	17.1	18.9	18.2	12.8	20.7	15.6	16.8
SW	1.6	7.6	7.8	1.0	.0	.0		18.0	11.2		16.3	19.9	14.6	19.9	21.8	18.5	16.1	23.1
W	1.0	6.2	5.7	.8	.0	.0		13.6	11.1		11.7	11.5	13.4	14.8	15.8	7.6	15.7	14.9
NW	.3	5.8	5.4	.6	.1	.0		12.2	11.7		13.6	12.0	13.5	7.1	10.2	10.9	15.0	8.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.7							5.7	.0		6.4	3.1	5.8	5.7	7.9	2.9	5.7	1.3
TOT OBS	177	577	542	96	6	0	1398		11.0		298	98	277	88	279	69	210	79
TOT PCT	12.7	41.3	38.8	6.9	.4	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	2.7	4.3	1.1	.0	.0		8.1	10.0	6.5	10.8	8.7	6.1	
NE	2.8	4.3	1.1	.1	.0		8.3	10.1	10.0	7.0	7.2	9.0	
E	1.9	2.6	1.3	.0	.0		5.9	10.7	5.2	5.5	7.2	5.7	
SE	3.6	4.4	3.0	.3	.1		11.2	12.2	12.2	10.7	10.1	12.1	
S	3.2	7.7	5.3	.8	.0		17.0	14.1	18.6	18.7	14.4	15.9	
SW	5.0	9.2	3.6	.1	.0		18.0	11.2	17.2	15.9	21.1	18.0	
W	3.6	7.8	1.9	.3	.0		13.6	11.1	11.7	13.8	14.2	15.5	
NW	2.7	7.2	2.3	.1	.0		12.2	11.7	13.2	12.0	10.3	13.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	5.7						5.7	.0	5.6	5.8	6.9	4.5	
TOT OBS	436	664	274	23	1	1398		11.0	396	365	348	289	
TOT PCT	31.2	47.5	19.6	1.6	.1		100.0		100.0	100.0	100.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1885-1974AREA 0022 ONEKOTAN ISLAND
49.2N 152.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	0-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	TOTAL
HOUR	FALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT	FREQ	OBS
0000	5.0	7.3	38.6	40.7	7.6	.3	.0	11.2	100.0	396	
0600	5.8	6.6	39.2	39.7	7.9	.8	.0	11.6	100.0	365	
1200	6.9	6.3	42.0	39.4	5.2	.3	.0	10.6	100.0	348	
1800	4.5	7.6	46.7	34.3	6.6	.3	.0	10.4	100.0	289	
TOT	6.0	6.7	57.7	34.2	9.6	.6	.0	11.0		1398	
PCT	5.7	6.9	41.3	36.8	6.9	.4	.0	10.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD COVER	MEAN
N	.5	.5	1.8	5.8	6.9	
NE	.5	.6	.8	6.9	7.2	
E	.2	.2	.5	6.8	7.5	
SE	.3	.0	.9	9.1	7.6	
S	.5	.3	2.0	13.2	7.4	
SW	2.3	1.2	1.6	11.1	6.4	
W	2.2	.8	1.3	8.2	6.2	
NW	1.5	.5	2.0	8.7	6.7	
VAR	.0	.0	.0	.0	.0	
ALL	1.3	.1	.7	5.1	6.3	
TOT OBS	105	47	132	844	1128	
TOT PCT	9.3	4.2	11.7	74.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 4/8
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

0-100	100-150	150-200	200-250	250-300	300-350	350-400	400-450	450-500	500-550	550-600	600-650	650-700	700-750	750-800	800-850	850-900	900-950	950-1000	TOTAL
149	299	599	999	1999	3499	4999	6499	7999											OBS
2.2	.0	.2	.3	1.6	2.1	.4	.1	.0	.2	1.4									
3.3	.1	.4	.5	.8	1.7	.7	.0	.0	.0	1.2									
3.3	.1	.3	1.0	1.3	1.0	.1	.0	.2	.1	.4									
5.3	.0	.2	.4	1.0	1.9	.5	.0	.0	.1	.9									
5.6	.0	.4	.5	3.1	3.0	1.2	.2	.1	.1	1.8									
7.1	.1	.3	.3	1.5	1.9	.7	.1	.1	.1	3.8									
4.6	.2	.2	.1	1.5	2.3	.1	.0	.0	.2	3.3									
3.7	.0	.2	.4	1.6	2.8	1.0	.1	.0	.1	2.9									
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0									
3.4	.1	.0	.3	.1	1.2	.2	.1	.2	.0	1.7									
4.6	.0	.2	.4	1.4	2.0	.5	.6	.6	.2	1.9									
38.7	.5	2.3	3.9	12.5	18.0	4.8	.5	.5	1.1	17.2									1128

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	> 10	> 5	> 2	> 1	> 1/2	> 1/4	> 50 YD	> 0
> 5000	.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5
> 4000	1.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
> 3500	3.7	6.1	6.5	6.6	6.7	6.7	6.8	6.8
> 3000	10.7	21.2	23.9	24.4	24.5	24.7	25.0	25.0
> 2500	13.2	28.9	33.8	35.4	36.0	36.5	36.9	36.9
> 2000	14.1	31.0	37.0	38.9	39.9	40.5	40.8	40.8
> 1500	14.1	31.9	38.4	40.6	41.7	42.6	43.0	43.0
> 1000	14.2	32.3	39.0	41.1	42.2	43.1	43.6	43.6
> 500	14.2	32.7	40.3	44.7	48.8	59.8	79.9	82.7
TOTAL	161	371	457	507	553	678	906	938

TOTAL NUMBER OF OBS: 1134

PCT FREQ NH < 5/8: 17.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL
6.8	2.1	3.4	1.9	2.6	1.7	3.4	5.1	36.0	36.9	1218

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1885-1974

AUGUST

TABLE 8

AREA 0022 ONEKOTAN ISLAND
49.2N 152.1E

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.5	.1	.5	.8	.5	.1	.0	.0	.1	2.7	
	NO PCP	2.0	2.5	2.4	5.0	5.0	6.6	4.2	3.3	.0	2.9	34.1	
	TOT %	2.0	3.0	2.6	5.5	5.8	7.2	4.3	3.3	.0	3.1	36.8	
1/2<1	PCP	.1	.1	.1	.1	.2	.3	*	*	.0	.0	1.0	
	NO PCP	.1	.4	.2	.8	.9	.4	.2	.4	.0	.1	3.5	
	TOT %	.2	.5	.2	.9	1.0	.7	.2	.4	.0	.1	4.5	
1<2	PCP	.1	.1	.2	.4	.3	.1	.1	.1	.0	.0	1.5	
	NO PCP	.4	.1	.4	.4	.6	.3	.4	.4	.0	.1	3.1	
	TOT %	.5	.1	.6	.8	.9	.4	.6	.5	.0	.1	4.5	
2<5	PCP	.1	.2	.3	.3	.7	.4	.2	.1	.0	.1	2.6	
	NO PCP	.5	.5	.5	.8	1.3	.6	.6	.5	.0	.2	5.6	
	TOT %	.5	.7	.9	1.1	2.0	1.2	.8	.6	.0	.3	8.2	
5<10	PCP	*	.2	.3	.1	.3	.4	.1	.1	.0	.0	1.7	
	NO PCP	2.3	1.8	1.5	1.4	3.4	2.4	3.0	3.3	.0	.9	20.2	
	TOT %	2.4	2.0	1.8	1.5	3.8	2.8	3.1	3.4	.0	.9	21.8	
10+	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	2.8	1.9	.9	1.5	2.6	4.0	4.1	4.2	.0	2.1	24.2	
	TOT %	2.8	1.9	.9	1.5	2.6	4.0	4.1	4.2	.0	2.1	24.2	
TOT OBS													1502
TOT PCT		8.5	8.3	7.0	11.5	16.2	16.4	13.2	12.5	.0	6.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.3	.3	.3	.8	.8	.9	.5	.1	.0	2.3	6.3	
	4-10	1.3	1.7	.6	2.2	2.3	3.2	2.5	2.3	.0		16.1	
	11-21	.6	.7	.8	2.0	2.0	3.4	1.8	1.3	.0		12.7	
	22+	.0	.2	.1	.2	.4	.5	1.1	.1	.0		1.5	
	TOT %	2.2	2.9	1.8	5.2	5.5	8.0	4.8	3.8	.0	2.3	36.6	
1/2<1	0-3	.0	.0	.0	.0	.1	.1	.1	.0	.0	.1	.3	
	4-10	.3	.3	.1	.3	.2	.1	.0	.2	.0		1.8	
	11-21	.1	.2	.2	.5	.6	.4	.1	.2	.0		2.2	
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	TOT %	.3	.5	.3	.8	1.1	.8	.1	.4	.0	.1	4.4	
1<2	0-3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.2	
	4-10	.2	.2	.3	.1	.1	.2	.3	.2	.0		1.7	
	11-21	.2	*	*	.3	.7	.2	.3	.2	.0		2.0	
	22+	.2	.0	.1	.2	.3	.0	.1	.0	.0		.8	
	TOT %	.6	.2	.6	.8	1.1	.5	.7	.5	.0	.1	4.8	
2<5	0-3	.0	.0	.1	*	.1	.1	.0	.0	.0	.2	.5	
	4-10	.2	.4	.4	.3	.5	.5	.2	.2	.0		2.8	
	11-21	.1	.3	.1	.5	1.4	.7	.6	.3	.0		4.0	
	22+	.1	.0	.2	.2	.4	.1	.1	.1	.0		1.1	
	TOT %	.3	.7	.7	1.1	2.3	1.4	.8	.7	.0	.2	8.3	
5<10	0-3	.2	.1	.2	.0	.0	.2	.2	.1	.0	.9	1.8	
	4-10	1.1	1.1	.8	.2	1.1	1.3	1.3	1.3	.0		8.2	
	11-21	.8	.8	.5	1.1	1.6	1.4	1.4	1.6	.0		9.1	
	22+	.4	.1	.1	.1	1.1	.1	.3	.1	.0		2.0	
	TOT %	2.1	2.1	1.6	1.5	3.8	3.0	3.1	3.0	.0	.9	21.1	
10+	0-3	.2	.1	.3	.1	.1	.2	.2	.2	.0	2.3	3.7	
	4-10	1.4	1.5	.3	.8	.8	2.1	2.0	1.7	.0		10.4	
	11-21	1.0	.4	.3	.6	1.5	1.9	1.8	2.0	.0		9.5	
	22+	.1	.1	.0	.1	.2	*	.3	.3	.0		1.1	
	TOT %	2.6	1.9	.9	1.6	2.6	4.3	4.3	4.2	.0	2.3	24.7	
TOT OBS													1331
TOT PCT		8.2	8.2	6.0	11.0	16.4	18.0	13.8	12.5	.0	5.9	100.0	

AUGUST

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1885-1974

TABLE 10

AREA 0022 ONEKOTAN ISLAND
49.2N 152.1E

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	37.0	.6	2.0	5.7	11.2	18.9	5.7	.6	.0	1.1	82.8	17.2	349
06009	35.3	.3	3.8	3.4	11.9	18.8	6.6	.9	1.6	1.9	84.4	15.6	320
12015	43.1	.4	1.1	2.3	13.1	16.3	3.2	.4	.0	.0	80.2	19.8	283
18021	41.1	.9	1.8	3.7	13.2	16.9	2.7	.5	.5	.9	82.2	17.8	219
TOT	494	6	26	47	143	209	56	7	6	12	966	205	1171
PCT	38.8	.5	2.2	4.0	12.2	17.8	4.8	.6	.5	1.0	82.5	17.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	38.2	5.0	5.4	6.9	16.1	28.4	461
06009	34.9	4.7	4.7	10.6	19.3	25.7	424
12015	38.5	4.2	4.2	8.6	24.4	20.0	405
18021	40.6	6.1	5.5	6.7	25.2	16.1	330
TOT	614	80	80	134	338	374	1620
PCT	37.9	4.9	4.9	8.3	20.9	23.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	37.9	44.9	55.7	29.4	14.9	343
06009	35.5	41.8	53.1	33.3	13.5	318
12015	43.0	46.0	58.8	23.5	17.6	272
18021	42.3	48.3	58.2	28.4	13.4	201
TOT	445	509	637	328	169	1134
PCT	39.2	44.9	56.2	28.9	14.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.6	.0	.0	.0	.0	.0	.0	1	.6
55/59	.0	.0	.0	.0	.0	.0	1.2	1.9	5	3.1
50/54	.0	.0	.6	.6	1.2	2.5	9.9	34.0	79	48.8
45/49	.0	.0	.0	.6	1.2	1.2	4.9	38.9	76	46.9
40/44	.0	.0	.0	.0	.0	.0	.0	.6	1	.6
TOTAL	0	1	1	2	4	6	26	122	162	100.0
PCT	.0	.6	.6	1.2	2.5	3.7	16.0	75.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CAL 1
65/69	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0
55/59	.0	.0	.0	.6	1.1	.2	.0	.6	.0	.6
50/54	6.9	4.2	3.4	.9	8.3	9.6	3.2	9.7	.0	2.5
45/49	6.8	4.8	2.3	1.7	9.6	5.4	5.9	6.8	.0	3.7
40/44	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	14.4	9.6	5.7	3.2	19.0	15.1	9.1	17.1	.0	6.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	76	68	62	52	46	43	40	52.6	455
06009	78	71	62	52	46	41	41	52.9	425
12015	73	71	57	50	45	41	39	50.9	414
18021	77	70	59	50	45	41	41	50.7	339
TOT	78	69	61	51	45	41	39	51.9	1633

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.9	3.9	.0	21.6	70.6	90	51		
06009	.0	.0	2.3	7.0	23.3	67.4	91	43		
12015	.0	5.4	2.7	5.4	8.1	78.4	92	37		
18021	.0	.0	.0	3.0	9.1	87.9	95	34		
TOT	0	4	4	6	27	123	92	164		

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1885-1974

AUGUST

TABLE 17

AREA 0022 ONEKOTAN ISLAND
49.2N 152.1E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	WU FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	2	.1	.1
20/22	.0	.0	.0	.0	.0	.1	.2	.0	.4	.1	.0	13	.6	.4
17/19	.0	.0	.0	.1	.1	.0	.1	.1	.0	.1	.0	5	.1	.2
14/16	.0	.0	.1	.3	.0	.4	.1	.1	.0	.0	.0	13	.5	.4
11/13	.0	.1	.9	.4	.7	.5	.3	.1	.0	.0	.0	41	1.4	1.5
9/10	.0	.6	.7	.7	.6	.5	.1	.0	.1	.0	.0	44	1.1	2.1
7/8	.0	1.2	1.2	1.1	1.6	.3	.2	.0	.0	.0	.0	77	3.0	2.6
6	.0	.4	.7	.6	.6	.0	.1	.0	.0	.0	.0	32	.9	1.4
4	.0	.7	2.2	1.8	1.3	.3	.1	.0	.0	.0	.0	93	3.1	3.6
3	.0	1.6	3.2	2.5	1.2	.3	.0	.0	.0	.0	.0	125	4.6	4.5
2	.0	1.2	1.7	1.9	.4	.0	.0	.0	.0	.0	.0	71	2.3	2.8
1	.0	2.5	5.6	3.3	.9	.4	.1	.0	.0	.0	.0	182	6.0	7.2
0	.1	1.4	3.5	1.5	.4	.1	.0	.0	.0	.0	.0	97	2.9	4.1
-1	.0	2	3.8	5.9	3.0	.6	.1	.0	.0	.0	.0	189	5.4	8.2
-2	.0	.7	2.8	1.3	.3	.1	.0	.0	.0	.0	.0	72	2.0	3.2
-3	.0	2.1	3.5	.9	.1	.1	.0	.0	.0	.0	.0	97	3.4	3.6
-4	.0	.9	1.7	.7	.1	.0	.0	.0	.0	.0	.0	49	1.4	2.2
-5	.0	2	1.7	1.9	.5	.4	.0	.0	.0	.0	.0	64	1.4	3.2
-6	.0	1.4	1.7	.7	.2	.0	.0	.0	.0	.0	.0	58	1.4	2.7
-7/-8	.0	.1	.2	.5	.2	.1	.0	.0	.0	.0	.0	15	.4	.7
-9/-10	.1	.2	.9	.5	.0	.0	.0	.0	.0	.0	.0	23	.7	.9
-11/-13	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	8	.2	.4
-14/-16	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	8	.2	.4
TOTAL	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	3	.1	.1
PCT	.1	2.4	22.2	38.5	21.8	9.5	3.4	1.1	.6	.4	.1	1362	600	782
												100.0	43.4	56.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.6	.3	.0	.0	.0	2.0	.3	1.0	.0	.0	.0	.0	1.3
1-2	.1	2.1	1.3	.0	.0	.0	3.5	.0	1.6	.8	.0	.0	.0	2.4
3-4	.0	.2	.8	.0	.0	.0	1.0	.1	.6	1.2	.1	.0	.0	2.1
5-6	.0	.3	.8	.2	.0	.0	1.3	.0	.2	.2	.1	.0	.0	.4
7	.0	.1	.1	.2	.0	.0	.4	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.1	.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.5	3.5	.4	.0	.0	8.7	.5	3.3	2.8	.4	.0	.0	7.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.0	.0	.0	.0	1.2	.3	1.5	.2	.0	.0	.0	1.9
1-2	.3	.4	.5	.0	.0	.0	1.2	.1	1.0	.8	.0	.0	.0	1.9
3-4	.0	.6	1.2	.0	.0	.0	1.8	.0	.5	1.8	.1	.0	.0	2.5
5-6	.0	.1	.2	.1	.0	.0	.4	.1	.1	2.3	.3	.0	.0	2.7
7	.0	.0	.6	.3	.0	.0	.9	.0	.0	1.1	.5	.0	.0	1.6
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.3	.0	.0	.3
10-11	.0	.0	.1	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.9	2.7	.6	.0	.0	5.9	.6	3.1	6.3	1.4	.2	.0	11.5

PERIOD: (OVER-ALL) 1963-1974

AUGUST

TABLE 18 (CONT)

AREA 0022 ONEKUTAN ISLAND
49.2N 152.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.2	.0	.0	.0	1.2	.6	2.3	.1	.0	.0	.0	3.0
1-2	.2	2.5	1.7	.0	.0	.0	4.4	.4	2.6	1.9	.0	.0	.0	4.9
3-4	.0	.5	3.6	.4	.0	.0	4.5	.0	1.3	2.9	.2	.0	.0	4.4
5-6	.0	.3	1.3	.8	.0	.0	2.4	.0	.1	2.6	.3	.0	.0	2.9
7	.0	.0	1.0	.9	.2	.0	2.1	.0	.0	.8	.5	.0	.0	1.3
8-9	.0	.1	.0	.8	.0	.0	.9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.7	.0	.0	.7	.0	.0	.2	.2	.0	.0	.3
12	.0	.1	.1	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.3	7.9	3.7	.2	.0	16.6	1.1	6.2	8.8	1.1	.0	.0	17.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	1.2	.0	.0	.0	.0	1.3	.2	1.3	.0	.0	.0	.0	1.5	
1-2	.3	1.9	1.8	.0	.0	.0	4.0	.0	2.6	1.9	.0	.0	.0	4.5	
3-4	.0	1.4	1.5	.1	.0	.0	3.0	.0	1.4	1.7	.1	.0	.0	3.2	
5-6	.0	.3	2.7	.5	.0	.0	3.4	.0	.2	1.3	.2	.0	.0	1.7	
7	.0	.2	.3	.4	.0	.0	.9	.0	.2	1.1	.2	.0	.0	1.5	
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.4	.1	.0	.0	.5	
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	5.1	6.8	.9	.0	.0	13.2	.2	5.6	6.3	.6	.1	.0	12.9	92.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.4	10.5	.8	.0	.0	.0	20.5	
1-2	1.4	14.6	10.7	.0	.0	.0	26.7	
3-4	.1	8.6	14.6	1.0	.0	.0	22.4	
5-6	.1	1.4	11.2	2.3	.0	.0	15.1	
7	.0	.5	5.3	2.8	.3	.0	8.9	
8-9	.0	.3	1.3	1.3	.0	.0	2.8	
10-11	.0	.0	.6	1.3	.1	.0	2.1	
12	.0	.1	.2	.3	.0	.0	.6	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.1	.3	.1	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.1	34.0	45.1	9.3	.5	.0	100.0	774

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.2	11.7	12.5	7.2	3.6	.9	.3	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	434
6-7	.0	2.0	3.7	5.0	3.4	.4	.4	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	181
8-9	.1	.4	1.4	1.6	1.3	1.3	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78
10-11	.0	.8	.4	.6	.4	.2	.4	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	34
12-13	.0	.0	1.1	.3	.6	.2	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	26
>13	.0	.0	.0	.2	.4	.0	.1	.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14
INDRT	8.1	6.5	7.3	4.9	3.2	.6	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	349
TOTAL	115	238	296	221	147	49	24	9	6	9	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1116
PCT	10.3	21.3	26.5	19.8	13.2	4.4	2.2	.8	.5	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1870-1974

AREA 0022 ONEKOTAN ISLAND
49.2N 152.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.0	.0	3.3	.0	.0	.0	.0	8.2	.0	.0	11.3	1.5	.7	.0	78.3
NE	16.0	.9	6.4	.0	.0	.0	.0	23.3	.2	.0	9.6	3.8	.9	.0	62.2
E	14.7	.0	9.0	.0	.0	.0	.0	23.7	2.0	.0	12.2	.0	.0	.0	62.2
SE	13.2	.0	4.5	.0	.0	.0	.0	17.7	1.7	.7	22.3	.0	.0	.0	57.6
S	8.7	.0	3.2	.0	.0	.0	.0	11.9	.0	.0	21.8	.6	.6	.0	65.1
SW	5.5	.6	2.7	.0	.0	.0	.0	8.9	.6	.0	21.0	.6	.6	.0	68.2
W	1.6	1.3	.0	.0	.0	.0	.0	2.8	1.7	.0	17.4	.6	.0	.0	77.4
NW	2.4	.6	1.4	.0	.0	.0	.0	4.4	2.7	.0	8.7	.0	.2	.0	84.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4	.0	.0	.0	.0	.0	.0	1.4	1.4	.0	27.1	.0	.0	.0	70.0
TOT PCT	7.5	.4	3.3	.0	.0	.0	.0	11.3	1.2	.1	16.6	.8	.3	.0	69.8
TOT OBS:	1195														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
PCPN (GMT)	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	7.6	.9	3.9	.0	.0	.0	.0	12.4	1.5	.0	17.5	.6	.0	.0	68.0
0600	5.4	.0	1.8	.0	.0	.0	.0	7.3	1.8	.0	15.7	.9	.6	.0	73.7
1200	7.8	.3	4.4	.0	.0	.0	.0	12.5	.6	.0	16.0	.9	.3	.0	69.6
1800	8.5	.4	4.5	.0	.0	.0	.0	13.2	1.1	.4	16.6	.4	.4	.0	67.9
TOT PCT	7.2	.4	3.6	.0	.0	.0	.0	11.2	1.3	.1	16.5	.7	.3	.0	69.9
TOT OBS:	1246														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	3.9	4.4	1.4	.1	.0		10.2	13.5		10.5	9.8	9.9	13.3	7.6	12.1	12.9	7.2
NE	.6	3.8	3.2	1.5	.1	.0		9.2	13.3		8.9	9.8	8.1	8.3	11.4	13.8	7.4	8.0
E	.4	3.2	3.9	2.0	.5	.0		9.9	15.8		10.2	7.5	10.9	14.7	12.0	7.8	5.9	9.4
SE	.7	5.2	5.5	1.5	.2	.0		13.1	12.9		14.9	10.9	13.4	10.0	9.4	21.6	14.6	13.0
S	.5	4.9	5.0	1.7	.3	.0		13.2	13.7		12.5	11.8	13.0	7.7	14.0	9.5	17.3	13.2
SW	.6	4.3	6.0	1.3	.2	.0		12.4	13.7		13.3	9.2	11.2	13.0	14.1	8.6	11.5	17.0
W	.9	5.2	6.3	1.0	.2	.0		13.6	12.6		13.1	22.7	14.4	12.3	11.7	6.0	12.9	16.3
NW	.4	5.2	5.6	1.0	.1	.0		12.3	12.6		11.3	14.9	15.4	15.3	11.1	12.1	8.6	12.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.1							6.1	.0		5.3	3.4	3.7	5.3	8.7	8.6	8.9	2.9
TOT OBS	116	387	442	124	18	0	1087		12.6		208	87	214	75	207	58	169	69
TOT PCT	10.7	35.6	40.7	11.4	1.7	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00					03	06	12	18	21
N	1.9	5.2	2.6	.5	.0		10.2	13.5	10.3	10.8	8.6	11.2		
NE	2.1	4.6	1.8	.8	.0		9.2	13.3	9.2	8.1	11.9	7.6		
E	2.2	3.4	2.8	1.5	.0		9.9	15.8	9.4	11.9	11.0	6.9		
SE	3.2	5.9	3.4	.6	.0		13.1	12.9	13.7	12.5	12.1	14.2		
S	2.7	5.9	3.9	.7	.0		13.2	13.7	12.3	11.6	13.0	16.3		
SW	1.8	6.7	3.2	.6	.0		12.4	13.7	12.1	11.7	12.9	13.1		
W	2.7	7.1	3.2	.6	.0		13.6	12.6	15.9	13.8	10.5	13.9		
NW	2.7	6.3	3.0	.4	.0		12.3	12.6	12.4	15.4	11.3	9.7		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	6.1						6.1	.0	4.7	4.2	8.7	7.1		
TOT OBS	276	489	260	62	0	1087		12.6	295	289	265	238		
TOT PCT	25.4	45.0	23.9	5.7	.0		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1879-1974

SEPTEMBER

AREA 0022 ONEKOTAN ISLAND
49.2N 152.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+*	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	4.7	5.1	39.0	41.0	9.2	1.0	.0	12.1	100.0	295
0600	4.2	3.1	35.6	40.1	14.2	2.6	.0	13.7	100.0	289
1200	8.7	4.2	36.2	39.2	11.3	.4	.0	12.1	100.0	265
1800	7.1	6.3	30.7	42.4	10.9	2.5	.0	12.5	100.0	238
TOT	66	50	387	447	124	18	0	12.6		1087
PCT	6.1	4.6	35.6	40.7	11.4	1.7	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	1.7	1.3	2.2	4.2		5.7
NE	1.6	1.2	2.3	5.6		6.0
E	.6	.4	2.0	7.2		7.1
SE	.9	1.0	1.9	6.2		6.6
S	3.2	.8	2.6	7.1		5.6
SW	3.6	1.0	3.6	5.6		5.3
W	5.2	2.2	2.9	2.6		3.9
NW	3.1	2.1	2.4	5.6		5.2
VAR	.0	.0	.0	.0		.0
CALM	2.6	.5	.9	2.2		4.2
TOT OBS	183	85	168	376	812	5.5
TOT PCT	22.5	10.5	20.7	46.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.6	.0	.0	.3	1.8	1.9	.6	.0	.2	.1	3.8	
NE	1.4	.0	.2	.6	2.4	1.3	.7	.1	.3	.1	3.6	
E	1.6	.0	.1	.5	2.4	2.7	.8	.1	.0	.2	1.7	
SE	1.7	.1	.1	.4	1.3	2.2	.9	.5	.1	.2	2.5	
S	2.9	.3	.0	.2	1.5	2.1	.9	.4	.1	.0	5.1	
SW	2.2	.1	.1	.8	1.6	2.6	.4	.0	.2	.0	5.7	
W	.9	.0	.2	.4	.7	2.2	.5	.2	.1	.0	7.8	
NW	.9	.0	.0	.5	2.3	2.6	.9	.1	.0	.4	5.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.1	.0	.0	.0	.1	1.1	.1	.0	.1	.0	3.6	
TOT OBS	108	4	6	29	115	153	47	12	10	9	319	812
TOT PCT	13.3	.8	.7	3.6	14.2	18.8	5.8	1.5	1.2	1.1	39.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >5000	1.7	2.4	2.4	2.4	2.4	2.4	2.4	2.4
OR >4000	2.2	3.6	4.0	4.0	4.0	4.0	4.0	4.0
OR >3500	6.0	8.9	9.6	9.6	9.7	9.7	9.8	9.8
OR >2000	15.6	26.1	28.7	28.9	29.1	29.1	29.2	29.2
OR >1000	20.9	36.3	41.1	41.9	42.4	42.4	42.6	42.6
OR >600	22.2	39.0	44.4	45.3	45.9	45.9	46.2	46.2
OR >300	22.3	39.4	44.9	45.9	46.6	46.6	46.9	46.9
OR >150	22.4	39.5	45.3	46.3	47.1	47.1	47.4	47.4
OR >0	22.6	40.5	47.5	49.7	51.0	54.6	59.5	60.5
TOTAL	188	337	396	414	425	455	496	504

TOTAL NUMBER OF OBS: 833

PCT FREQ NH <5/8: 39.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	16.9	4.6	8.2	4.6	4.4	3.8	5.1	8.0	32.8	12.0	923

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1879-1974

SEPTEMBER

AREA 0022 ONEKOTAN ISLAND
49.2N 152.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.5	.6	.6	.3	*	.0	.0	.0	.0	2.2	
	NN PCP	.7	.6	.9	1.0	1.4	2.4	1.3	.8	.0	1.2	10.3	
	TOT %	.8	1.1	1.5	1.6	1.8	2.4	1.3	.8	.0	1.2	12.5	
1/2<1	PCP	.0	.4	.3	.0	.2	.1	.0	.0	.0	.0	1.0	
	NN PCP	.0	.1	.1	.5	.2	.1	.3	.1	.0	.2	1.6	
	TOT %	.0	.5	.4	.5	.4	.2	.3	.1	.0	.2	2.6	
1<2	PCP	.1	.2	.2	.5	.2	.3	.0	.1	.0	.0	1.6	
	NN PCP	.0	.0	.1	.3	.5	.2	.4	.0	.0	.0	1.6	
	TOT %	.1	.2	.3	.8	.8	.5	.4	.1	.0	.0	3.2	
2<5	PCP	.1	.4	.9	.6	.5	.4	.2	.1	.0	.0	3.3	
	NN PCP	.5	.5	.6	.9	.7	.2	.8	.5	.0	.6	5.4	
	TOT %	.7	.9	1.5	1.5	1.3	.6	1.0	.6	.0	.6	8.7	
5<10	PCP	.3	.6	.5	.3	.7	.4	.1	.2	.0	.1	2.7	
	NN PCP	2.7	1.3	2.0	2.3	3.3	3.3	2.7	4.4	.0	1.3	23.5	
	TOT %	3.1	2.0	2.6	2.6	3.5	3.7	2.8	4.5	.0	1.4	26.2	
10+	PCP	.1	.1	.1	*	.1	.0	.1	.2	.0	.0	.7	
	NN PCP	4.8	4.7	4.1	4.1	5.8	5.8	7.4	7.0	.0	2.5	46.1	
	TOT %	4.9	4.8	4.1	4.2	5.9	5.8	7.5	7.2	.0	2.5	46.8	
TOT OBS													
TOT PCT													
		9.6	9.5	10.5	11.2	13.6	13.2	13.3	13.3	.0	5.9	100.0	1186

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.2	.1	.5	.1	.2	.1	.1	.0	1.5	3.0	
	4-10	.7	.5	1.0	1.5	.7	1.0	1.3	.6	.0		7.3	
	11-21	.5	.5	.5	.6	.7	1.2	.5	.7	.0		5.3	
	22+	.1	.3	.3	.3	.4	.0	.1	.1	.0		1.5	
	TOT %	1.3	1.4	2.0	3.0	2.0	2.5	2.1	1.6	.0	1.5	17.2	
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.4	
	4-10	.0	.0	.0	.5	.2	*	.2	.1	.0		1.0	
	11-21	.0	.0	.2	.1	.2	.1	.1	.0	.0		.8	
	22+	.0	.5	.2	.0	.0	.0	.0	.0	.0		.7	
	TOT %	.0	.5	.5	.6	.4	.2	.4	.1	.0	.2	2.8	
1<2	0-3	.0	.0	.0	*	.1	.0	.1	.0	.0	.1	.4	
	4-10	.0	.0	*	.3	.4	.3	.1	.2	.0		1.3	
	11-21	.1	.0	.1	.6	.3	.1	.2	.1	.0		1.6	
	22+	.1	.2	.1	.0	.1	.4	.1	*	.0		1.0	
	TOT %	.2	.2	.3	1.0	1.0	.8	.5	.3	.0	.1	4.3	
2<5	0-3	.0	.0	.0	.1	.1	.1	.0	.0	.0	.7	1.0	
	4-10	.5	.6	.3	.2	.3	*	.5	.3	.0		2.8	
	11-21	.4	.2	.7	.6	.6	.4	.5	.1	.0		3.6	
	22+	.1	.2	.6	.6	.4	.1	.2	*	.0		2.2	
	TOT %	.9	1.0	1.6	1.6	1.5	.6	1.2	.5	.0	.7	9.5	
5<10	0-3	*	.1	.1	.0	.0	.3	.1	.1	.0	1.4	2.2	
	4-10	.9	.4	.8	.8	1.1	1.7	1.0	1.5	.0		8.0	
	11-21	1.6	1.1	1.1	1.4	2.0	1.4	1.6	2.0	.0		12.1	
	22+	.5	.1	.5	.6	.3	.5	.4	.5	.0		3.4	
	TOT %	3.0	1.7	2.4	2.8	3.4	3.9	3.0	4.1	.0	1.4	25.8	
10+	0-3	.2	.3	.2	.1	.2	*	.5	.2	.0	2.2	3.9	
	4-10	1.9	2.0	1.0	1.9	2.3	1.4	2.1	2.6	.0		15.2	
	11-21	1.7	1.5	1.4	2.2	1.9	2.8	3.5	2.8	.0		17.7	
	22+	.5	.1	.5	.2	.8	.5	.5	.5	.0		3.6	
	TOT %	4.4	4.0	3.1	4.4	5.1	4.8	6.5	6.0	.0	2.2	40.5	
TOT OBS													
TOT PCT													
		9.8	8.7	9.8	13.3	13.3	12.7	13.7	12.6	.0	6.1	100.0	1048

SEPTEMBER

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1879-1974

AREA 0022 ONEKOTAN ISLAND
49.2N 152.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	10.2	.8	.8	3.3	13.1	20.9	9.4	.8	2.9	1.6	63.9	36.1	244
0600	10.4	.8	.8	6.0	14.0	20.8	4.4	2.0	.8	.8	60.8	39.2	250
1200	17.9	.0	.9	1.9	11.3	14.2	5.2	1.9	.0	.5	53.8	46.2	212
1800	15.4	.0	.0	2.5	14.8	17.9	3.1	1.2	1.2	1.2	57.4	42.6	162
TOT	114	4	6	31	115	162	50	13	11	9	515	353	868
PCT	13.1	.5	.7	3.6	13.2	18.7	5.8	1.5	1.3	1.0	59.3	40.7	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	14.7	1.1	3.7	10.5	18.9	51.1	354
0600	13.2	2.6	3.4	7.7	23.2	49.9	349
1200	14.9	2.7	4.9	10.6	29.2	37.7	329
1800	17.6	3.2	5.0	10.3	28.1	35.6	281
TOT	197	31	55	128	323	579	1313
PCT	15.0	2.4	4.2	9.7	24.6	44.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 3+	TOTAL OBS
0000	10.0	12.5	21.7	43.8	34.6	240
0600	9.9	13.2	24.8	38.4	36.8	242
1200	18.5	21.5	31.5	27.0	41.5	200
1800	15.9	19.9	31.8	33.1	35.1	151
TOT	109	135	223	302	308	833
PCT	13.1	16.2	26.8	36.3	37.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	1.1	.0	.0	.0	.0	.0	.0	1	1.1
60/64	.0	.0	.0	1.1	1.1	1.1	1.1	.0	4	4.5
55/59	.0	.0	1.1	1.1	1.1	1.1	3.4	2.2	9	10.1
50/54	.0	.0	1.1	1.1	1.1	5.6	10.1	6.7	23	25.8
45/49	.0	.0	.0	1.1	1.1	2.2	10.1	31.5	41	46.1
40/44	.0	.0	.0	.0	.0	1.1	9.0	2.2	11	12.4
TOTAL	0	1	2	4	4	10	30	38	89	100.0
PCT	.0	1.1	2.2	4.5	4.5	11.2	33.7	42.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.8	.3	.0	.0
.8	.3	2.2	1.1	.0	.0	.0	.0	.0	.0
1.7	2.5	.8	.0	.0	1.1	3.4	.6	.0	.0
1.7	8.1	2.0	2.8	3.9	1.7	1.7	3.9	.0	.0
2.0	5.6	2.2	3.4	4.2	7.3	14.3	7.0	.0	.0
2.0	.3	.0	.0	.0	.0	1.7	7.3	.0	1.1
8.1	16.9	7.3	7.3	8.1	10.1	21.9	19.1	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	67	64	61	50	45	41	37	51.2	349
0600	72	67	63	52	44	41	39	51.9	350
1200	67	60	56	49	41	39	36	49.3	331
1800	68	64	56	48	41	38	37	48.8	283
TOT	72	66	60	50	43	39	36	50.4	1313

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	3.8	11.5	15.4	30.8	38.5	83	26
0600	.0	10.0	3.3	10.0	43.3	33.3	83	30
1200	.0	4.8	.0	9.5	28.6	57.1	87	21
1800	.0	16.7	.0	8.3	25.0	50.0	85	12
TOT	0	7	4	10	30	38	84	89

SEPTEMBER

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1879-1974

AREA 0022 ONEKOTAN ISLAND
49.2N 152.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 3A	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FUG	WU FOG
20/22	.0	.0	.0	.0	.0	.0	.1	.2	.1	.1	5	.3	.2
17/19	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	4	.1	.3
14/16	.0	.0	.0	.0	.0	.3	.2	.1	.1	.0	7	.2	.4
11/13	.0	.0	.0	.2	.6	.2	.2	.5	.3	.0	22	.4	1.5
9/10	.0	.0	.0	.6	1.2	.4	.5	.4	.1	.0	36	.5	2.7
7/8	.0	.0	.0	1.3	.4	.4	.5	.4	.1	.1	35	.5	2.6
6	.0	.0	.0	.4	.7	.4	.4	.1	.1	.0	25	.3	2.0
5	.0	.0	.2	2.2	1.4	1.8	.3	.3	.0	.0	69	1.3	4.9
4	.0	.0	.3	1.7	1.9	1.4	.5	.2	.0	.0	67	.6	5.4
3	.0	.0	.1	.8	1.3	.7	.3	.0	.0	.0	36	.6	2.6
2	.0	.1	.2	3.7	5.4	1.5	.6	.3	.0	.0	131	2.6	9.2
1	.0	.0	.1	1.8	1.6	1.3	.6	.2	.0	.0	63	.9	4.8
0	.0	.1	.5	6.0	5.5	2.8	.8	.4	.0	.0	179	2.5	13.6
-1	.0	.0	.2	1.5	2.2	.7	.1	.1	.0	.0	54	.6	4.2
-2	.0	.0	.4	5.1	2.7	.7	.1	.1	.0	.0	101	1.8	7.3
-3	.0	.0	.6	.7	1.5	.6	.0	.0	.0	.0	39	.4	3.1
-4	.0	.1	.8	2.9	2.7	1.4	.2	.0	.0	.0	90	2.2	5.8
-5	.0	.1	.4	2.2	1.2	.6	.1	.0	.0	.0	52	.4	4.2
-6	.0	.2	.3	.4	.7	.2	.0	.0	.0	.0	19	.3	1.4
-7/-8	.0	.2	.4	1.3	1.1	.3	.1	.0	.0	.0	37	.2	3.1
-9/-10	.0	.2	.3	1.0	.4	.1	.0	.0	.0	.0	22	.1	1.9
-11/-13	.1	.4	.5	.2	.3	.0	.0	.0	.0	.0	17	.1	1.4
-14/-16	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	3	.0	.3
TOTAL	1	15	58	382	367	178	64	36	9	3	1113	190	923
PCT	.1	1.3	5.2	34.3	33.0	16.0	5.8	3.2	.8	.3	100.0	17.1	82.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5	.2	1.7	.2	.0	.0	.0	2.1
1-2	.0	1.2	1.8	.0	.0	.0	3.0	.4	1.3	1.4	.0	.0	.0	3.1
3-4	.0	.5	1.0	.2	.0	.0	1.7	.0	.5	1.3	.0	.0	.0	1.8
5-6	.0	.3	.9	.3	.0	.0	1.5	.0	.*	.2	.0	.0	.0	.2
7	.0	.0	.2	.5	.0	.0	.7	.0	.0	.*	.2	.0	.0	.3
8-9	.0	.0	.5	.1	.0	.0	.7	.0	.0	.*	.2	.0	.0	.2
10-11	.0	.0	.3	.3	.0	.0	.6	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.5	4.6	1.6	.2	.0	9.9	.6	3.6	3.2	1.0	.0	.0	8.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.9	.0	.0	.0	.0	.9
1-2	.3	.9	1.1	.0	.0	.0	2.2	.0	1.6	1.5	.0	.0	.0	3.1
3-4	.0	.0	1.9	.0	.0	.0	1.9	.0	.4	1.6	.4	.0	.0	2.3
5-6	.0	.1	.7	.7	.1	.0	1.6	.0	.2	1.1	.9	.*	.0	2.3
7	.0	.0	.7	.5	.0	.0	1.2	.0	.0	.7	.3	.0	.0	1.0
8-9	.0	.1	.1	.7	.0	.0	.9	.0	.*	.*	.2	.0	.0	.3
10-11	.0	.0	.4	.2	.0	.0	.5	.0	.0	.2	.4	.0	.0	.6
12	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.*	.0	.*
13-16	.0	.0	.0	.5	.2	.0	.7	.0	.0	.0	.2	.2	.0	.4
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.6	4.8	2.5	.7	.0	9.9	.0	3.1	5.1	2.4	.3	.0	10.8

PERIOD: (OVER-ALL) 1963-1974

SEPTEMBER

AREA 0022 ONEKOTAN ISLAND
49.2N 152.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	1.6	.0	.0	.0	.0	1.8	.2	.8	.0	.0	.0	.0	.0	1.0
1-2	.0	1.9	1.8	.0	.0	.0	3.6	.2	2.1	1.8	.0	.0	.0	.0	4.1
3-4	.0	.7	2.2	.5	.0	.0	3.4	.0	.6	2.5	.2	.0	.0	.0	3.3
5-6	.0	.0	1.9	.4	.1	.0	2.5	.0	.2	1.3	.8	.0	.0	.0	2.4
7	.0	.2	1.1	.7	.2	.0	2.2	.0	.0	.8	.4	.0	.0	.0	1.2
8-9	.0	.0	.3	.2	.0	.0	.5	.0	.0	.8	.4	.0	.0	.0	1.1
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
13-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.4	7.5	1.8	.4	.0	14.3	.4	3.8	7.1	1.8	.0	.0	13.1	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.5	2.0	.7	.0	.0	.0	3.2	.2	1.7	.2	.0	.0	.0	.0	2.0	
1-2	.0	1.4	1.4	.0	.0	.0	2.8	.0	.9	.8	.0	.0	.0	.0	1.8	
3-4	.0	.9	2.8	.0	.0	.0	3.7	.0	.8	2.0	.2	.0	.0	.0	2.9	
5-6	.0	.3	1.2	.2	.0	.0	1.0	.0	.4	1.9	.6	.0	.0	.0	2.9	
7	.0	.0	.9	.0	.2	.0	1.0	.0	.0	.9	.2	.0	.0	.0	1.2	
8-9	.0	.0	.3	.3	.0	.0	.6	.0	.0	.4	.3	.2	.0	.0	.9	
10-11	.0	.0	.2	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.5	7.6	1.0	.4	.0	14.0	.2	3.8	6.2	1.6	.2	.0	11.9	92.3	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	8.8	10.6	1.1	.0	.0	.0	20.5	
1-2	1.1	11.3	11.5	.0	.0	.0	23.9	
3-4	.0	4.3	15.3	1.4	.0	.0	21.0	
5-6	.0	1.6	5.2	3.9	.4	.0	15.1	
7	.0	.2	5.2	2.9	.4	.0	8.6	
8-9	.0	.2	2.5	2.3	.2	.0	5.2	
10-11	.0	.0	1.3	1.1	.2	.0	2.5	
12	.0	.0	.0	.2	.4	.0	.5	
13-16	.0	.0	.0	1.1	.5	.0	1.6	
17-19	.0	.0	.2	.5	.2	.0	.9	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.2	.0	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.9	28.2	46.1	13.6	2.2	.0	100.0	557

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.2	11.4	13.2	5.8	4.2	1.5	.7	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	321	4
6-7	.0	.9	3.2	4.1	3.5	1.8	.8	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	124	5
8-9	.0	.5	.7	2.2	2.7	2.0	.1	.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	7
10-11	.0	1.1	.1	1.5	1.4	.6	.4	.1	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	47	7
12-13	.0	.0	1.4	.1	.5	.2	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	6
>13	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
INDET	5.1	5.4	6.5	6.1	3.4	1.6	.9	.2	.4	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	260	4
TOTAL	46	165	215	172	196	68	25	7	11	9	0	3	0	0	0	0	0	0	0	0	857	5
PCT	5.4	19.3	25.1	20.1	15.9	7.9	2.9	.8	1.3	1.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1907-1974

OCTOBER

TABLE 1

AREA 0022 ONEKOTAN ISLAND
49.2N 152.2E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE																OTHER WEATHER PHENOMENA									
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WG PCPN	FOG WL PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA										
N	2.4	.0	2.9	.0	.0	.0	.0	5.2	5.0	.0	4.5	.0	2.6	.0	82.6										
NE	8.3	.0	5.7	.0	.0	.0	.0	14.0	7.5	.0	10.2	.0	.0	.0	68.3										
E	15.0	.0	9.6	.0	.0	.0	.0	24.6	2.7	.0	7.3	.0	1.3	1.5	62.3										
SE	17.5	.0	3.9	.0	.0	.0	.0	21.4	3.5	.0	5.6	.0	1.4	.0	68.1										
S	13.1	2.0	2.7	.0	.7	.0	.0	18.4	2.7	.0	8.8	1.2	1.2	.0	67.8										
SW	2.7	.0	3.1	.0	.1	.0	.0	5.9	4.0	.0	8.5	.2	.6	.5	80.3										
W	2.3	.0	2.9	.0	2.3	.0	.0	7.6	4.4	.0	1.6	.3	.4	.0	85.7										
NW	.8	1.0	1.8	.0	2.0	.0	.0	4.6	3.6	.0	1.8	.0	.6	.0	89.5										
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0										
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0										
TOT PCT	5.5	.4	3.2	.0	1.0	.0	.0	9.9	3.9	.0	5.3	.3	.9	.2	79.5										
TOT OBS:	1147																								

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WG PCPN	FOG WL PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNUW	NO SIG WEA
0603	5.3	.0	3.9	.0	1.5	.0	.0	10.7	3.9	.0	5.6	.0	.6	.3	78.9	
0609	4.9	.3	3.7	.0	.6	.0	.0	9.5	4.0	.0	4.6	.6	.6	.3	80.4	
12015	6.2	.3	3.4	.0	.0	.0	.0	9.9	5.1	.0	8.2	.0	1.7	.0	75.0	
18021	6.0	1.2	2.0	.0	1.6	.0	.0	10.0	2.8	.0	3.2	.4	.8	.0	82.9	
TOT PCT	5.6	.4	3.3	.0	.9	.0	.0	10.0	4.0	.0	5.5	.2	.9	.2	79.2	
TOT OBS:	1207															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	2.5	3.4	1.8	.5	.0		9.1	15.6		7.8	6.4	12.8	15.5	9.0	11.1	5.6	3.8
NE	.4	2.0	2.1	1.1	.4	.0		6.0	15.6		7.7	4.3	6.0	5.4	6.0	2.8	4.9	3.8
E	.3	.8	2.3	1.5	.3	.0		5.2	19.0		5.8	2.1	6.4	2.7	6.0	8.3	3.2	.0
SE	.3	1.5	2.5	1.0	.3	.0		5.7	16.7		6.5	7.1	5.6	2.7	5.7	8.3	3.7	11.5
S	.7	2.4	4.0	3.2	.3	.0		14.5	17.2		14.9	12.1	12.6	24.3	15.6	16.7	14.0	9.6
SW	.4	4.7	11.8	2.4	.2	.0		19.4	14.8		13.9	20.7	20.3	12.2	21.9	16.7	25.6	11.5
W	.1	3.9	9.9	5.6	1.0	.0		20.5	18.4		24.5	20.0	18.6	18.9	16.6	19.4	21.8	32.7
NW	.4	4.3	6.4	5.0	.8	.0		16.9	17.7		17.6	27.1	13.2	15.5	16.7	16.7	19.0	19.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	60	219	456	213	37	0	985	2.7	.0		1.3	.0	4.6	2.7	2.7	.0	2.4	7.7
TOT PCT	6.1	22.2	46.3	21.6	3.8	.0	100.0	16.4			237	35	237	37	225	18	170	26
											100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 34

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	1.6	4.0	2.5	.8	.2			9.1	15.6		7.6	13.1	9.2	5.4	
NE	1.3	2.4	1.4	.6	.2			6.0	15.6		7.3	5.9	5.6	4.7	
E	.5	1.2	2.7	.8	.0			5.2	19.0		5.3	5.9	6.2	2.8	
SE	.6	2.2	2.0	.8	.0			5.7	16.7		6.6	5.2	5.9	4.7	
S	1.2	5.7	6.1	1.3	.1			14.5	17.2		14.5	14.1	15.6	13.4	
SW	2.5	10.0	6.2	.7	.0			19.4	14.8		14.8	19.2	21.5	23.7	
W	1.5	8.7	7.0	3.1	.3			20.5	18.4		23.9	18.6	16.8	23.2	
NW	1.6	5.8	7.3	2.1	.1			16.9	17.7		18.8	13.5	16.7	19.0	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	2.7							.0	.0		.0	.0	.0	.0	
TOT OBS	135	395	347	100	8	985		2.7	.0		1.1	4.4	2.5	3.1	
TOT PCT	13.7	40.1	35.2	10.2	.8			16.4			272	274	243	196	
											100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1907-1974

OCTOBER

AREA 0022 ONEKOTAN ISLAND
49.2N 152.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000Z	1.1	4.8	20.6	46.3	24.3	2.9	.0	16.6	100.0	272
0600Z	4.4	2.9	19.7	46.4	23.7	2.9	.0	16.7	100.0	274
1200Z	2.5	2.9	24.3	46.5	18.9	4.9	.0	16.3	100.0	243
1800Z	3.1	2.6	25.5	45.9	18.4	4.6	.0	16.1	100.0	196
TOT	2.7	3.3	21.9	45.6	21.3	3.7	.0	16.4		985
PCT	2.7	3.4	22.2	46.3	21.6	3.8	.0	16.4	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	1.7	1.2	2.7	3.8		5.7
NE	.6	.2	.5	4.4		7.0
E	.1	.2	1.1	5.0		7.4
SE	.8	.6	1.2	4.0		6.5
S	3.0	1.0	2.3	6.1		5.5
SW	3.8	2.5	5.5	6.0		5.3
W	4.1	3.5	9.7	4.7		5.0
NW	3.7	2.7	7.1	3.8		5.1
VAR	.0	.0	.0	.0		.0
CALM	.7	.1	.9	1.1		5.6
TOT OBS	167	103	280	353	903	
TOT PCT	16.5	11.4	31.0	39.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM) >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.7	.0	.0	.2	1.5	2.6	.8	.2	.1	.0	3.3	
.7	.0	.2	.5	1.5	1.6	.2	.1	.0	.0	.8	
1.0	.1	.3	.3	2.2	1.0	.6	.2	.0	.0	.7	
.7	.0	.0	.4	1.2	1.8	.1	.1	.0	.2	1.5	
1.7	.0	.1	1.1	1.4	2.3	.7	.1	.5	.1	4.5	
1.8	.1	.3	2.0	3.3	1.5	.2	.4	.7	7.5		
.6	.3	.2	.4	2.8	5.9	2.1	.4	.3	.1	8.9	
.2	.1	.1	.8	2.6	3.7	2.1	.1	.1	.1	7.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.0	.1	.2	.6	.6	.1	.0	.0	.0	1.1	
68	5	11	38	141	207	74	14	13	11	321	
7.5	.6	1.2	4.2	15.6	22.9	8.2	1.6	1.4	1.2	35.5	903 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM) OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >5000	2.3	2.6	2.7	2.7	2.7	2.7	2.7	2.7
OR >5000	3.2	3.9	4.2	4.2	4.2	4.2	4.2	4.2
OR >3500	8.2	11.2	11.9	12.1	12.1	12.1	12.1	12.1
OR >2000	20.2	32.5	35.0	36.1	36.3	36.3	36.3	36.3
OR >1000	26.3	44.7	50.0	51.4	51.6	51.7	51.7	51.7
OR >600	27.5	47.7	53.8	55.5	55.7	55.8	55.8	55.8
OR >300	27.7	48.5	55.0	56.8	57.0	57.1	57.1	57.1
OR >150	27.7	48.5	55.0	56.8	57.0	57.1	57.1	57.1
OR >0	27.9	49.7	58.0	60.8	61.6	63.2	64.9	65.1
TOTAL	260	463	541	567	574	589	605	607

TOTAL NUMBER OF OBS: 932

PCT FREQ NH <5/8: 34.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
0.6	3.9	9.3	6.0	4.7	7.2	8.5	11.0	32.8	1030

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1907-1974

OCTUBER

AREA 0022 ONEKOTAN ISLAND
49.2N 152.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.2	.2	.1	.2	.0	.1	.0	.0	.0	.8	
	NO PCP	.2	.1	.3	.2	.6	.8	.4	*	.0	.1	2.7	
	TOT %	.3	.3	.5	.4	.8	.8	.4	*	.0	.1	3.5	
1/2<1	PCP	.0	.0	.0	.1	.1	*	.2	.2	.0	.0	.6	
	NO PCP	.1	.1	.1	.1	.0	.2	.0	.0	.0	.0	.5	
	TOT %	.1	.1	.1	.2	.1	.2	.2	.2	.0	.0	1.1	
1<2	PCP	.0	.0	.0	.2	.5	.3	.3	.2	.0	.0	1.5	
	NO PCP	.1	.2	.1	.2	.2	.3	.2	.1	.0	.0	1.3	
	TOT %	.1	.2	.1	.4	.7	.6	.5	.3	.0	.0	2.8	
2<5	PCP	.4	.4	.3	.5	.9	.3	.5	.3	.0	.0	3.4	
	NO PCP	1.3	.6	.5	.3	1.2	.7	1.2	1.2	.0	.3	7.3	
	TOT %	1.6	.9	.8	.8	2.0	1.1	1.7	1.5	.0	.3	10.7	
5<10	PCP	*	.2	.8	.3	.7	.4	.4	.2	.0	.0	2.9	
	NO PCP	2.2	2.1	1.1	1.4	3.3	5.0	5.9	4.7	.0	.4	26.0	
	TOT %	2.2	2.3	1.9	1.7	4.0	5.4	6.3	4.9	.0	.4	28.9	
10+	PCP	.0	.2	.1	.2	.2	*	.2	*	.0	.0	1.0	
	NO PCP	4.7	1.8	2.2	2.6	5.5	10.3	12.4	10.2	.0	2.1	51.9	
	TOT %	4.7	2.0	2.4	2.8	5.7	10.4	12.6	10.2	.0	2.1	52.9	
TOT OBS													1136
TOT PCT													9.0 5.8 5.7 6.2 13.2 18.4 21.7 17.1 .0 2.8 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	.1	.1	.1	.0	.0	.0	.0	.1	.5	
	4-10	.0	.2	.0	.1	.0	.1	.1	.0	.0	.0	.3	
	11-21	.2	.1	.1	.1	.5	.7	.1	.0	.0	.0	1.8	
	22+	.0	.0	.2	*	.3	.0	.2	.0	.0	.0	.7	
	TOT %	.3	.4	.4	.3	.9	.8	.4	.0	.0	.1	3.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	*	.0	.0	.0	.1	.1	.1	.0	.0	.3	
	11-21	.0	.0	.1	*	.1	.1	.2	.1	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	*	.1	.1	.0	.0	.2	
	TOT %	.1	*	.1	*	.1	.2	.4	.3	.0	.0	1.2	
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.1	.0	.0	.0	.0	*	.1	.2	.0	.0	.3	
	11-21	.0	.1	.0	.1	.6	.4	.0	.0	.0	.0	1.3	
	22+	.1	.0	.1	.2	.2	.1	.4	.1	.0	.0	1.3	
	TOT %	.2	.1	.1	.3	.9	.6	.5	.3	.0	.0	2.9	
2<5	0-3	.0	.0	.0	.1	.1	.1	.0	.1	.0	.3	.7	
	4-10	.4	.3	.1	.2	.1	.2	.4	.4	.0	.0	2.2	
	11-21	.5	.3	.5	.3	1.2	.4	.9	.3	.0	.0	4.3	
	22+	.4	.2	.3	.4	.7	.2	.6	.9	.0	.0	3.7	
	TOT %	1.3	.8	.9	1.0	2.1	.9	1.9	1.7	.0	.3	10.9	
5<10	0-3	.0	.2	.0	.0	.2	.0	.1	.0	.0	.4	.9	
	4-10	1.0	.7	.2	.1	.4	1.3	1.2	.9	.0	.0	5.9	
	11-21	.7	.6	.7	.7	2.4	2.9	1.9	1.4	.0	.0	11.4	
	22+	.7	1.0	.8	.4	1.3	1.4	2.4	1.9	.0	.0	9.9	
	TOT %	2.4	2.5	1.7	1.2	4.4	5.7	5.6	4.3	.0	.4	28.1	
10+	0-3	.8	.1	.2	.1	.2	.3	.0	.2	.0	1.9	3.8	
	4-10	1.0	.8	.6	1.0	1.8	3.0	2.1	2.8	.0	.0	12.9	
	11-21	1.9	1.0	.9	1.3	3.2	7.3	7.1	4.5	.0	.0	27.1	
	22+	.9	.2	.6	.1	1.0	.7	3.1	2.7	.0	.0	9.5	
	TOT %	4.7	2.1	2.2	2.5	6.3	11.3	12.3	10.1	.0	1.9	53.3	
TOT OBS													951
TOT PCT													8.9 5.9 5.3 5.4 14.7 19.5 21.1 16.7 .0 2.7 100.0

OCTOBER

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1907-1974AREA 0022 UREQUAN ISLAND
49.2N 152.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1799	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	5.4	.0	.7	2.0	16.7	30.3	9.7	1.7	2.0	1.0	69.0	31.0	294
06009	6.3	1.1	1.1	3.4	17.9	25.4	8.6	1.9	1.5	1.5	82.7	31.3	280
12015	11.5	.5	.9	5.0	16.1	17.4	8.7	.5	.9	.9	62.4	37.6	218
18021	8.2	.5	2.7	6.6	9.3	16.4	3.8	1.6	1.6	1.1	51.9	48.1	183
TOT	73	5	12	38	149	225	70	14	15	11	618	345	963
PCT	7.6	.5	1.2	3.9	15.5	23.4	7.9	1.5	1.6	1.1	64.2	35.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	4.5	.6	1.2	8.3	29.2	56.3	336
06009	3.6	1.8	4.5	9.4	23.0	57.7	331
12015	4.7	1.7	4.1	14.9	29.4	45.3	296
18021	1.6	1.6	2.8	13.6	35.6	44.8	250
TOT	45	17	38	137	350	626	1213
PCT	3.7	1.4	3.1	11.3	28.9	51.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	4.9	5.9	15.3	54.4	30.3	267
06009	6.0	8.6	19.2	49.6	31.2	266
12015	12.0	13.9	20.9	38.9	34.1	208
18021	8.8	12.9	28.1	28.1	43.9	171
TOT	70	91	199	417	316	932
PCT	7.5	9.8	21.4	44.7	33.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	1.1	.0	.0	1.1	.0	2	2.1
50/54	.0	.0	.0	.0	.0	.0	2.1	2.1	4	4.3
45/49	.0	.0	.0	1.1	6.4	8.5	11.7	9.0	35	37.2
40/44	.0	.0	.0	1.1	7.4	14.9	6.4	12.8	40	42.6
35/39	.0	.0	.0	.0	1.1	2.1	2.1	2.1	7	7.4
30/34	.0	.0	.0	.0	.0	.0	.0	6.4	6	6.4
TOTAL	0	0	0	3	14	24	22	31	94	100.0
PCT	.0	.0	.0	3.2	14.9	25.5	23.4	33.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALC
1.1	.3	.8	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	1.1	1.1	1.1	1.1	.0	.0
6.9	1.9	1.1	.0	2.7	4.3	8.0	11.4	.0	1.1
8.2	1.9	.0	2.1	1.9	6.4	12.5	7.4	.0	2.1
.0	.0	.0	.0	.8	1.3	5.1	.3	.0	.0
.0	.0	.0	.0	.0	.0	6.4	.0	.0	.0
10.2	4.0	1.9	2.1	6.4	13.0	33.0	20.2	.0	3.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	62	55	53	45	37	32	32	45.1	323
06009	60	59	54	45	37	32	32	45.3	322
12015	61	54	50	44	37	32	30	43.9	294
18021	60	55	50	44	37	34	30	43.6	255
TOT	62	57	52	45	37	32	30	44.5	1194

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.9	14.7	23.5	20.6	38.2	82	34
06009	.0	4.2	4.2	33.3	29.2	29.2	83	24
12015	.0	.0	23.5	23.5	23.5	29.4	81	17
18021	.0	5.3	21.1	21.1	21.1	31.6	80	19
TOT	0	3	14	24	22	31	81	94

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1967-1974

OCTOBER

AREA 0022 UNEKOTAN ISLAND
49.2N 152.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.1	.1	.1	.2	.0	5	.0	.5
9/10	.0	.0	.0	.1	.1	.2	.1	.1	.0	12	.1	1.0
7/8	.0	.0	.0	.4	1.3	.3	.1	.4	.0	26	.0	2.5
6	.0	.0	.0	.0	.5	.2	.0	.0	.0	7	.0	.7
5	.0	.0	.0	.2	1.3	.9	.4	.1	.0	31	.2	2.7
4	.0	.0	.0	.7	2.5	.9	.8	.2	.0	53	.5	4.5
3	.0	.0	.0	.4	1.8	.9	.2	.0	.0	34	.3	2.9
2	.0	.0	.4	1.1	5.3	.9	.5	.0	.0	86	.4	7.8
1	.0	.0	.5	2.0	3.8	1.1	.2	.0	.0	80	.6	7.0
0	.0	.1	.5	3.9	5.7	1.4	.4	.0	.0	126	.6	11.4
-1	.0	.0	.4	3.2	2.6	.7	.1	.0	.0	74	.5	6.5
-2	.0	.2	.8	4.9	5.2	.9	.2	.1	.1	130	.9	11.4
-3	.0	.1	1.5	2.2	1.5	.5	.2	.0	.0	63	.3	5.7
-4	.0	.2	2.3	4.4	2.6	.4	.3	.0	.0	107	.5	9.6
-5	.0	.4	.8	2.0	2.3	.3	.1	.1	.0	62	.2	5.7
-6	.0	.0	1.1	.8	.4	.2	.1	.0	.0	27	.1	2.5
-7/-3	.0	.3	2.0	2.1	1.3	.8	.0	.0	.0	68	.2	6.2
-9/-10	.4	.8	1.0	.6	.3	.0	.0	.0	.0	32	.0	3.0
-11/-13	.7	.4	.8	.6	.1	.0	.0	.0	.0	26	.2	2.3
-14/-16	.2	.2	.2	.1	.0	.0	.0	.0	.0	7	.0	.7
TOTAL	13	25	128	314	414	111	38	12	2	1057	5.6	100.1
PCT	1.2	2.4	12.1	29.7	39.2	10.5	3.6	1.1	.2	100.0	5.3	94.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.5	.1	.0	.0	.0	1.8	.9	.1	.0	.0	.0	.0	1.1
1-2	.0	1.0	.5	.0	.0	.0	1.5	.1	.8	.2	.0	.0	.0	1.1
3-4	.0	.6	1.4	.4	.0	.0	2.5	.0	.5	.7	.1	.0	.0	1.4
5-6	.0	.1	.9	.6	.1	.0	1.7	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.4	.3	.0	.0	.7	.0	.0	.1	.4	.1	.0	.7
8-9	.0	.0	.1	.5	.1	.0	.8	.0	.0	.1	.5	.0	.0	.6
10-11	.0	.0	.1	.2	.1	.0	.4	.0	.0	.1	.4	.2	.0	.6
12	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	2.2	3.5	2.0	.7	.0	9.7	.2	2.2	1.6	1.6	.3	.0	5.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.4	.1	.0	.0	.0	.5
1-2	.0	.3	.3	.0	.0	.0	.6	.0	.2	.4	.0	.0	.0	.6
3-4	.0	.1	.7	.0	.0	.0	.9	.0	.3	1.3	.0	.0	.0	1.6
5-6	.0	.1	.3	.5	.1	.0	1.2	.0	.1	.5	.6	.0	.0	1.2
7	.0	.1	.4	.4	.0	.0	1.0	.0	.0	.3	.4	.0	.0	.7
8-9	.0	.0	.1	.4	.0	.0	.6	.0	.0	.1	.3	.0	.0	.4
10-11	.0	.0	.0	.6	.1	.0	.7	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.3	.1	.1	.0	.6	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	2.2	2.3	.4	.0	5.7	.0	1.0	2.9	1.4	.2	.0	5.5

PERIOD: (OVER-ALL) 1963-1974

DCTDRER

AREA 0022 ONEKUTAN ISLAND
49.2N 152.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.7	.9	.3	.0	.0	.0	1.2	.3	.7	.3	.0	.0	.0	.0	1.3
1-2	.1	.9	.9	.0	.0	.0	1.9	.1	1.9	2.2	.0	.0	.0	.0	4.2
3-4	.0	.6	2.9	.6	.0	.0	4.0	.0	.8	4.1	.2	.0	.0	.0	5.1
5-6	.0	.0	1.8	.7	.1	.0	2.6	.0	.0	3.2	1.2	.0	.0	.0	4.4
7	.1	.0	1.5	.7	.0	.0	2.3	.0	.2	1.0	.4	.0	.0	.0	1.6
8-9	.0	.0	.4	1.7	.1	.0	1.6	.0	.0	.2	*	.1	.0	.0	.4
10-11	.0	.0	.1	.6	.1	.0	.9	.0	.0	*	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.4	7.9	3.5	.4	.0	14.5	.4	3.6	11.0	2.6	.1	.0	17.8	

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.1	.4	.1	.0	.0	.0	.7	.3	.3	.3	.0	.0	.0	.0	.9
1-2	.0	.6	1.4	.0	.0	.0	2.0	.0	1.9	1.4	.0	.0	.0	.0	3.4
3-4	.0	.8	3.0	1.1	.0	.0	5.0	.0	.3	1.3	.7	.0	.0	.0	2.2
5-6	.0	.4	3.2	.9	.3	.0	4.8	.0	.1	2.1	1.1	*	.0	.0	3.3
7	.0	.4	.9	1.3	.1	.0	2.8	.0	.1	.8	.6	.1	.0	.0	1.6
8-9	.0	.0	.4	.7	.0	.0	1.1	.0	.0	.4	1.1	.3	.0	.0	1.9
10-11	.0	.0	.8	1.6	.0	.0	2.4	.0	.0	.4	1.2	.0	.0	.0	1.6
12	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.6	.1	.0	.0	.8
13-16	.0	.0	.0	.9	.1	.0	1.0	.0	.0	.1	.4	.1	.0	.0	.7
17-19	.0	.0	.1	.3	.4	.0	.8	.0	.0	.0	.1	*	.0	.0	.2
20-22	.0	.0	.1	.1	.6	.0	.3	.0	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	*	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.7	10.1	7.0	1.0	.0	21.0	.3	2.8	6.9	5.9	.9	.0	16.8	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	4.8	4.2	1.5	.0	.0	.0	10.4	
1-2	.6	7.5	7.3	.0	.0	.0	15.4	
3-4	.0	4.0	15.5	7.1	.0	.0	22.7	
5-6	.0	1.0	12.1	5.5	.7	.0	19.4	
7	.1	.9	5.5	4.3	.4	.0	11.3	
8-9	.0	.0	1.9	4.6	.7	.0	7.3	
10-11	.0	.0	1.5	4.8	.6	.0	6.9	
12	.1	.0	.3	1.0	.3	.0	1.8	
13-16	.0	.0	.3	1.9	.4	.0	2.7	
17-19	.0	.0	.1	.7	.6	.0	1.5	
20-22	.0	.0	.1	.1	.1	.0	.4	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.7	17.6	46.3	26.3	4.2	.0	100.0	670

PERIOD: (OVER-ALL) 1947-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SPC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.1	3.0	8.6	7.9	4.3	2.1	1.4	.5	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	281	5
6-7	.6	.3	1.5	3.8	3.5	4.4	3.9	.9	1.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	195	8
8-9	.0	.5	.7	2.1	3.5	2.3	2.7	1.0	.6	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	139	8
10-11	.0	.2	.2	.0	.6	1.4	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	7
12-13	.0	.0	.0	.1	.2	.3	.4	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	7
13-14	.0	.0	.0	.2	.6	.1	.0	.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	15	9
INDFT	2.3	4.1	4.6	7.2	5.0	2.1	2.7	1.5	.5	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	304	6
TOTAL	24	80	161	210	175	126	115	43	31	13	7	1	0	0	0	0	0	0	0	986	6
PCT	2.4	8.1	16.3	21.3	17.7	12.8	11.7	4.4	3.1	1.3	.7	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1942-1974

NOVEMBER

AREA 0022 ONEKOTAN ISLAND
49.1N 152.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	3.1	1.6	1.2	.0	16.7	.0	1.6	22.6	4.3	.0	.0	.0	1.2	.0	72.0
NE	2.8	2.8	3.5	.0	24.8	.0	.0	31.2	2.8	.0	.0	.0	3.5	.0	62.4
E	9.4	.0	6.0	.0	6.0	.0	.0	21.4	6.8	.0	6.0	.0	.0	.0	65.8
SE	9.4	.0	4.4	.5	12.3	.0	.0	26.6	6.4	.0	.5	.0	2.0	.0	64.5
S	17.6	.0	7.5	1.3	2.4	.0	.0	29.3	6.3	.0	6.7	.0	.0	.0	57.7
SW	3.1	1.0	1.6	.0	9.4	.0	.3	13.4	9.2	.0	5.2	.0	.0	.0	72.2
W	1.0	.6	1.2	.0	15.5	.0	.4	17.5	8.0	.0	.0	.0	.0	.0	74.5
NW	.6	.5	.0	.0	13.7	.0	.0	14.3	8.0	.0	1.0	.0	.0	.0	76.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	9.1	.0	.0	9.1	.0	.0	9.1	.0	.0	.0	81.8
TOT PCT	3.8	.7	2.0	.1	13.0	.0	.3	18.9	7.1	.0	2.0	.0	.4	.0	71.6
TOT OBS:	716														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000Z	4.6	.9	1.4	.0	12.3	.0	.5	19.2	4.4	.0	1.4	.0	.5	.0	72.6
0600Z	4.8	.5	1.4	.0	10.0	.0	.5	16.3	8.6	.0	2.4	.0	1.0	.0	71.8
1200Z	2.7	1.1	1.6	.0	16.9	.0	.0	21.3	7.7	.0	2.7	.0	.0	.0	68.3
1800Z	2.0	.0	3.3	.7	13.9	.0	.0	18.5	6.6	.0	2.6	.0	.0	.0	72.2
TOT PCT TOT OBS:	3.7 762	.7	1.8	.1	13.1	.0	.3	18.8	7.3	.0	2.2	.0	.4	.0	71.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	1.7	4.2	2.1	.6	.0		8.6	18.8		8.2	25.0	7.0	34.6	5.9	.0	7.1	35.0
NE	.4	1.5	2.6	.8	.0	.0		6.3	15.2		6.5	14.3	4.0	9.6	8.2	.0	5.8	.0
E	.0	.8	1.9	.9	.2	.0		2.7	17.8		3.4	.0	2.5	.0	5.9	.0	4.5	.0
SE	.2	2.0	3.5	2.7	.0	.0		8.4	17.5		10.6	7.1	9.7	7.7	8.2	.0	4.8	.0
S	.0	1.6	3.1	3.1	1.1	.0		8.9	20.6		10.1	7.1	9.7	7.7	7.1	25.0	9.3	.0
SW	.0	2.2	6.0	2.8	.6	.0		11.7	18.8		12.5	7.1	12.1	15.4	9.4	31.3	12.4	12.5
W	.2	3.3	13.9	5.0	1.3	.0		23.6	18.7		18.7	19.6	23.0	7.7	29.8	18.8	27.0	17.5
NW	.4	3.8	13.0	8.4	1.3	.2		27.0	19.1		29.3	19.6	29.9	17.3	23.3	25.0	26.0	35.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0		.7	.0	2.2	.0	2.3	.0	3.0	.0
TOT OBS	16	94	274	143	26	1	556		18.3		146	14	139	13	131	4	99	10
TOT PCT	2.9	16.9	49.3	25.7	5.0	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00					06	12	18	
N	.6	2.8	4.4	.4	.4		8.6	18.8	9.7	9.4	5.7	9.6	
NE	.6	2.8	2.6	.2	.0		6.3	15.2	7.2	4.4	8.0	5.3	
E	.3	1.4	1.5	.5	.0		3.7	17.8	3.1	2.3	5.7	4.1	
SE	1.1	2.5	3.6	1.1	.0		8.4	17.5	10.3	9.5	8.0	4.4	
S	1.1	2.2	3.2	2.2	.2		8.9	20.6	9.8	9.5	7.6	8.5	
SW	.7	3.9	5.3	1.6	.2		11.7	18.8	12.0	12.3	10.0	12.4	
W	1.1	8.3	11.8	2.1	.3		23.6	18.7	18.8	21.7	29.4	26.1	
NW	2.4	8.1	12.7	3.5	.2		27.0	19.1	28.4	28.8	29.3	26.8	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.8						1.8	.0	.6	2.0	2.2	2.8	
TOT OBS	54	179	251	65	7	556		18.3	160	152	135	109	
TOT PCT	9.7	32.2	45.1	11.7	1.3		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1942-1974

NOVEMBER

AREA 0022 ONEKOTAN ISLAND
49.1N 152.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4R+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.6	1.3	18.1	41.4	32.5	5.0	.0	18.9	100.0	160
06009	2.0	.7	12.5	56.6	21.7	6.6	.0	18.8	100.0	152
12015	2.2	1.5	14.8	54.8	21.5	4.4	.7	17.8	100.0	135
18021	2.8	.9	23.9	43.1	26.6	2.8	.0	17.6	100.0	109
TOT	10	6	94	274	143	28	1	18.3		556
PCT	1.9	1.1	16.9	49.3	25.7	5.0	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	.0	.2	3.6	3.8		7.0
NE	.2	.4	1.6	2.6		6.8
E	.2	.0	1.5	2.5		7.1
SE	.0	.2	2.0	4.5		7.5
S	.1	.5	2.6	4.8		6.9
SW	.4	1.1	6.6	4.8		6.6
W	1.1	2.1	13.7	8.0		6.3
NW	2.6	3.9	15.1	7.8		5.8
VAR	.0	.0	.0	.0		.0
CALM	.2	.2	.5	.9		6.3
TOT OBS	27	48	261	222	558	6.4
TOT PCT	4.8	8.6	46.8	39.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/R
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.2	3.6	3.8		7.0	1.0	.0	.0	.4	1.9	2.7	1.0	.0	.3	.0	.3	
NE	.2	.4	1.6	2.6		6.8	.2	.0	.2	.2	.9	1.5	.9	.0	.1	.2	.6	
E	.2	.0	1.5	2.5		7.1	.7	.0	.0	.4	1.0	.9	.1	.2	.2	.2	.5	
SE	.0	.2	2.0	4.5		7.5	.6	.0	.2	.7	1.3	2.0	.8	.0	.0	.0	1.1	
S	.1	.5	2.6	4.8		6.9	.7	.0	.7	.7	2.1	2.3	.5	.0	.0	.0	2.1	
SW	.4	1.1	6.6	4.8		6.6	1.2	.0	.3	.9	3.3	3.2	.6	.4	.0	.4	2.9	
W	1.1	2.1	13.7	8.0		6.3	1.2	.0	.8	1.9	5.3	8.9	1.4	.2	.2	.4	4.0	
NW	2.6	3.9	15.1	7.8		5.8	.7	.0	.4	.5	6.2	8.4	4.0	.2	.0	.2	9.0	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.2	.5	.9		6.3	.4	.0	.0	.0	.4	.4	.4	.0	.0	.4	.4	
TOT OBS	27	48	261	222	558	6.4	37	.0	14	31	123	169	54	5	4	11	110	558
TOT PCT	4.8	8.6	46.8	39.8	100.0		6.6	.0	2.5	5.6	22.0	30.3	9.7	.9	.7	2.0	19.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/R) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.2	2.6	2.6	2.6	2.6	2.6	2.6	2.6
>6000	1.7	3.3	3.5	3.5	3.5	3.5	3.5	3.5
>5500	5.7	11.6	12.8	12.8	13.0	13.0	13.0	13.0
>5000	19.5	37.3	41.1	41.8	42.8	42.8	42.8	42.8
>4500	28.7	54.6	61.7	63.6	65.1	65.3	66.1	66.1
>4000	29.9	58.4	66.1	68.4	69.9	70.5	71.5	71.5
>3500	30.9	59.8	68.2	70.6	72.2	72.7	73.7	73.7
>3000	30.9	59.8	68.2	70.6	72.2	72.7	73.7	73.7
>2500	30.9	59.8	68.2	70.6	72.2	72.7	73.7	73.7
>2000	30.9	59.8	68.2	70.6	72.2	72.7	73.7	73.7
>1500	30.9	59.8	68.2	70.6	72.2	72.7	73.7	73.7
>1000	30.9	59.8	68.2	70.6	72.2	72.7	73.7	73.7
>500	30.9	59.8	68.2	70.6	72.2	72.7	73.7	73.7
TOTAL	179	349	408	427	441	449	463	466

TOTAL NUMBER OF OBS: 579

PCT FREQ NH <5/8 19.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
2.3	.8	3.3	5.9	5.3	8.3	16.8	15.5	36.2	5.6	660

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1949-1974

NOVEMBER

TABLE 8

AREA 0022 ONEKOTAN ISLAND
49.1N 152.1E

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL Obs
<1/2	PCP	.4	.3	.0	.6	.1	.3	.6	.9	.0	.0	3.2	
	NO PCP	.0	.0	.2	.*	.1	.4	.1	.4	.0	.1	1.5	
	TOT %	.4	.3	.2	.6	.2	.8	.7	1.3	.0	.1	4.7	
1/2<1	PCP	.3	.3	.2	.1	.0	.6	1.1	.7	.0	.0	3.3	
	NO PCP	.0	.1	.0	.1	.0	.0	.1	.*	.0	.0	.4	
	TOT %	.3	.5	.2	.3	.0	.6	1.2	.7	.0	.0	3.7	
1<2	PCP	.1	.3	.0	.5	.5	.3	.5	.3	.0	.1	2.6	
	NO PCP	.1	.0	.1	.0	.0	.2	.3	.4	.0	.0	1.2	
	TOT %	.3	.3	.1	.5	.5	.5	.9	.7	.0	.1	3.9	
2<5	PCP	1.0	.3	.3	.7	1.3	.5	.6	1.6	.0	.0	6.2	
	NO PCP	1.4	.2	.1	.*	1.1	1.0	1.3	2.0	.0	.0	7.1	
	TOT %	2.4	.5	.4	.7	2.4	1.5	1.9	3.6	.0	.0	12.3	
5<10	PCP	.0	.3	.2	.2	.8	.5	1.4	.9	.0	.0	4.3	
	NO PCP	2.5	1.2	.8	1.8	.9	3.4	8.3	9.9	.0	.4	29.2	
	TOT %	2.5	1.5	1.0	2.1	1.7	3.9	9.7	10.8	.0	.4	33.5	
10+	PCP	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	NO PCP	2.7	1.9	1.4	3.1	3.6	6.4	9.2	10.9	.0	.8	40.6	
	TOT %	2.9	1.9	1.4	3.1	3.6	6.4	9.2	11.0	.0	.8	40.9	
TOT OBS													
TOT PCT		6.8	4.8	3.9	7.2	8.4	13.6	23.6	28.1	.0	1.5	100.0	722

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL Obs
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.1	.*	.2	.0	.2	.0	.0	.0	.6	
	11-21	.0	.0	.0	.6	.0	.6	.1	.4	.0	.0	1.7	
	22+	.2	.2	.0	.0	.1	.*	.1	.8	.0	.0	1.5	
	TOT %	.2	.2	.1	.6	.3	.6	.5	1.2	.0	.2	3.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.2	.3	.*	.0	.0	.6	
	11-21	.0	.4	.1	.0	.0	.*	.6	.5	.0	.0	1.7	
	22+	.2	.0	.2	.2	.0	.0	.0	.2	.0	.0	.7	
	TOT %	.2	.4	.3	.2	.0	.2	.4	.9	.0	.0	3.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.7	
	11-21	.2	.0	.0	.0	.0	.0	.2	.2	.0	.0	.6	
	22+	.0	.0	.2	.6	.5	.2	.7	.2	.0	.0	2.4	
	TOT %	.2	.4	.2	.6	.5	.2	.9	.8	.0	.0	3.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	4-10	.6	.2	.0	.2	.6	.2	.0	.4	.0	.0	2.0	
	11-21	1.0	.4	.0	.4	.8	.5	1.3	1.3	.0	.0	5.8	
	22+	.7	.*	.3	.1	1.4	.6	.3	1.1	.0	.0	4.6	
	TOT %	2.3	.7	.3	.7	2.8	1.3	1.8	2.8	.0	.0	12.6	
5<10	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.6	.7	
	4-10	.1	.5	.3	.6	.3	.4	.7	1.1	.0	.0	4.1	
	11-21	1.1	1.3	.4	.9	.8	1.9	5.0	5.6	.0	.0	17.7	
	22+	.8	.*	.0	.9	.6	1.0	3.1	4.6	.0	.0	11.0	
	TOT %	2.0	1.8	.7	2.6	1.7	3.3	9.5	11.3	.0	.6	33.5	
10+	0-3	.0	.4	.0	.0	.0	.0	.2	.0	.0	1.1	1.7	
	4-10	.9	.5	.3	1.1	.6	1.5	2.1	1.8	.0	.0	8.9	
	11-21	1.8	1.4	1.4	1.7	1.6	3.1	6.2	5.2	.0	.0	21.9	
	22+	.9	.6	.2	.7	1.5	1.7	1.8	3.1	.0	.0	10.6	
	TOT %	3.6	2.5	2.0	3.6	3.7	6.3	10.2	10.2	.0	1.1	43.1	
TOT OBS													
TOT PCT		8.5	5.9	3.7	8.3	9.1	11.9	23.7	27.2	.0	1.9	100.0	538

NOVEMBER

PERIOD: (PRIMARY) 1964-1974
(OVEN-ALL) 1942-1974AREA 0022 ONEKOTAN ISLAND
49.1N 152.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	4.6	.0	2.1	6.2	22.6	37.4	7.7	1.0	.5	2.1	84.1	15.9	195
06009	5.6	.0	3.9	5.6	27.4	31.7	11.7	.6	.0	1.7	88.3	11.7	180
12015	9.0	.0	1.6	5.7	20.5	23.8	8.2	.0	.8	2.5	72.1	27.9	122
18021	11.6	.0	1.1	2.1	18.9	18.9	10.5	2.1	2.1	1.1	68.4	31.6	95
TOT	41	0	14	31	137	177	56	5	4	11	476	116	592
PCT	6.9	.0	2.4	5.2	23.1	29.9	9.5	.8	.7	1.9	80.4	19.6	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.6	2.7	4.9	14.2	28.7	49.3	223
06009	3.9	2.3	2.8	14.1	35.2	41.8	213
12015	8.6	4.9	4.9	12.4	34.6	34.6	185
18021	4.6	5.2	5.9	18.3	34.6	31.4	153
TOT	39	28	34	106	256	311	774
PCT	5.0	3.6	4.4	13.7	33.1	40.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	4.2	8.9	23.4	61.5	15.1	192
06009	5.7	10.8	26.7	62.5	10.8	176
12015	8.4	16.0	32.8	41.2	26.1	119
18021	12.0	19.6	37.0	42.4	20.7	92
TOT	33	73	165	316	98	579
PCT	6.7	12.6	28.5	54.6	16.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	8.1	5.4	5	13.5	
40/44	.0	.0	.0	2.7	5.4	2.7	5.4	8	21.6	
35/39	.0	.0	.0	2.7	5.4	16.2	13.5	16	43.2	
30/34	.0	.0	.0	.0	.0	2.7	10.8	5.4	7	18.9
25/29	.0	.0	.0	.0	2.7	.0	.0	.0	1	2.7
TOTAL	0	0	0	2	5	4	15	11	37	100.0
PCT	.0	.0	.0	5.4	13.5	10.8	40.5	29.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
45/49	.0	.0	.0	.0	5.4	5.4	.0	2.7	.0	.0
40/44	.0	.0	.0	.7	4.7	2.7	8.1	5.4	.0	.0
35/39	.0	.0	.0	.0	.0	14.9	15.5	10.1	.0	2.7
30/34	.0	.0	.0	.0	4.7	3.4	4.7	6.1	.0	.0
25/29	.0	.0	.0	.0	.0	.0	2.0	.7	.0	.0
TOT	.0	.0	.0	.7	14.9	26.4	30.4	25.0	.0	2.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	46	45	43	36	27	21	19	35.2	211
06009	48	46	43	34	25	21	19	34.7	201
12015	47	43	41	34	25	23	18	33.9	177
18021	48	46	42	34	25	23	19	33.8	146
TOT	48	46	43	34	25	22	18	34.5	735

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	9.1	27.3	9.1	27.3	27.3	80	11		
06009	.0	12.5	12.5	12.5	37.5	25.0	81	8		
12015	.0	.0	.0	9.1	63.6	27.3	86	11		
18021	.0	.0	14.3	14.3	28.6	42.9	85	7		
TOT	0	2	5	4	15	11	83	37		

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1947-1974

NOVEMBER

AREA 0022 ONEKOTAN ISLAND
49.1N 152.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	WD FOG
7/8	.0	.0	.0	.0	.0	.5	.0	.2	4	.0	.6
6	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
5	.0	.0	.0	.0	.0	.2	.5	.5	7	.2	.9
4	.0	.0	.0	.0	.0	.3	.8	.3	9	.2	1.2
3	.0	.0	.0	.0	.0	.0	.8	.2	6	.0	.9
2	.0	.0	.0	.0	.2	1.4	2.9	.6	33	.8	4.2
1	.0	.0	.0	.0	.5	1.7	.9	.2	21	.2	3.0
0	.0	.0	.0	.2	.6	2.4	2.3	.3	38	.0	5.7
-1	.0	.0	.0	.0	1.1	1.7	1.5	.0	28	.0	4.2
-2	.0	.0	.0	.2	1.2	2.6	1.1	.5	36	.2	5.3
-3	.0	.0	.0	.0	1.8	2.1	.6	.0	30	.2	4.4
-4	.0	.0	.2	1.7	3.0	1.4	.6	.0	45	.3	6.5
-5	.0	.0	.2	1.1	5.1	1.7	.3	.0	55	.0	8.3
-6	.0	.0	.2	2.1	1.7	.8	.5	.0	34	.0	5.1
-7/-8	.0	.0	3.2	5.7	6.3	2.1	.0	.0	115	.2	17.1
-9/-10	.0	.3	1.5	3.9	4.4	.8	.0	.0	72	.3	10.5
-11/-13	.0	.2	4.1	4.8	1.1	.6	.0	.0	71	.2	10.5
-14/-16	.5	.3	3.8	1.4	.3	.0	.0	.0	41	.0	6.2
-17/-19	.0	.2	1.2	.5	.2	.0	.0	.0	13	.0	2.0
-20/-22	.2	.0	.5	.2	.2	.0	.0	.0	6	.0	.9
TOTAL	4	8	97	143	182	84	17	665	100.0	2.4	97.6
PCT	.6	.9	14.6	21.5	27.4	19.8	12.6	2.6			

PERIOD: (OVER-ALL) 1943-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.2	.0	.0	.0	.2	.0	.9	.1	.0	.0	.0	.9
1-2	.0	.2	1.1	.0	.0	.0	1.3	.0	.9	.0	.0	.0	.0	1.2
3-4	.0	.2	1.0	.0	.0	.0	1.2	.0	.1	1.3	.0	.0	.0	1.4
5-6	.0	.0	1.0	.0	.0	.0	1.0	.0	.3	.3	.0	.0	.0	.6
7	.0	.0	.3	.8	.2	.0	1.3	.0	.0	.5	.3	.0	.0	.9
8-9	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	.0	.1
10-11	.0	.0	.3	.5	.3	.0	1.1	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.2	.3	.3	.0	.7	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	4.2	2.0	.9	.0	7.5	.0	1.5	3.2	1.2	.1	.0	5.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.2	.0	.0	.0	.4	.0	.9	.7	.0	.0	.0	1.5
3-4	.0	.0	.8	.0	.0	.0	.8	.0	.5	1.1	.3	.0	.0	1.8
5-6	.0	.3	.0	.3	.0	.0	.5	.0	.0	1.1	.3	.0	.0	1.4
7	.0	.0	.8	.5	.0	.0	1.3	.0	.0	.3	1.1	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.5	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.5
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	1.8	.8	.3	.0	3.5	.0	1.6	3.6	3.0	.0	.0	8.2

PERIOD: (OVER-ALL) 1963-1974

NOVEMBER

AREA 0022 ONEKUTAN ISLAND
49.1N 152.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.8	.0	.0	.0	.0		.8	.0	.5	.0	.0	.0	.0		.5
1-2	.0	.7	.2	.0	.0	.0		.9	.0	.4	.7	.0	.0	.0		1.1
3-4	.0	.3	.5	.8	.0	.0		1.6	.0	.0	1.9	.3	.0	.0		2.2
5-6	.0	.0	.0	.7	.0	.0		.7	.0	.0	2.7	.1	.0	.0		2.8
7	.0	.0	1.1	1.3	.5	.0		2.8	.0	.3	.9	.3	.3	.0		1.7
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.3	.0	.0		.4
10-11	.0	.0	.3	1.0	.3	.0		1.5	.0	.0	.0	.9	.1	.0		.9
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.6	.0	.0		.6
13-16	.0	.0	.3	.0	.5	.0		.8	.0	.0	.0	.5	.0	.0		.5
17-19	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.3	.0	.0		.3
20-22	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.1	.0	.0		.1
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.3	.0		.3
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.3	.0		.3
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	1.8	2.3	4.2	1.3	.0		9.6	.0	1.2	6.3	3.3	.9	.0		11.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0		.0	.3	.8	.3	.0	.0	.0		1.3	
1-2	.0	.7	.8	.0	.0	.0		1.5	.0	1.1	1.0	.0	.0	.0		2.0	
3-4	.0	.5	4.2	.5	.0	.0		5.1	.0	.0	2.7	.3	.0	.0		3.0	
5-6	.0	1.1	4.7	.3	.0	.0		6.1	.0	.3	2.0	1.3	.0	.0		3.6	
7	.3	.5	2.7	1.0	.0	.0		4.4	.0	.1	4.1	4.5	.1	.0		8.7	
8-9	.0	.0	2.0	.2	.0	.0		2.2	.0	.0	1.8	.3	.0	.0		2.2	
10-11	.0	.0	.3	1.3	.5	.0		2.0	.0	.0	.0	1.9	.3	.0		2.2	
12	.0	.0	.0	.5	.4	.0		.9	.0	.0	.3	.5	.1	.0		.9	
13-16	.0	.0	.0	1.1	.0	.0		1.1	.0	.0	.3	.0	.3	.0		.6	
17-19	.0	.0	.0	.5	.0	.0		.5	.0	.0	.0	.3	.5	.0		.9	
20-22	.0	.0	.0	.2	.2	.0		.4	.0	.0	.3	.1	.1	.0		.4	
23-25	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.1	.0	.0		.1	
26-32	.0	.0	.0	.3	.8	.0		1.1	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	2.8	14.6	5.9	1.8	.0		25.4	.3	2.2	12.8	9.3	1.3	.0		25.9	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	3.2	.5	.0	.0	.0	6.3	
1-2	.0	4.5	5.5	.0	.0	.0	10.0	
3-4	.0	1.6	13.5	2.1	.0	.0	17.2	
5-6	.0	1.8	11.9	2.9	.0	.0	16.6	
7	.3	.8	10.6	9.8	1.1	.0	22.4	
8-9	.0	.0	4.0	1.3	.3	.0	5.5	
10-11	.0	.3	1.1	4.6	1.3	.0	9.2	
12	.0	.0	.8	1.8	.5	.0	3.2	
13-16	.0	.0	.8	2.1	1.3	.0	4.2	
17-19	.0	.0	.0	1.6	.5	.0	2.1	
20-22	.0	.0	.3	.8	.3	.0	1.3	
23-25	.0	.0	.0	.3	.3	.0	.5	
26-32	.0	.0	.0	.3	1.1	.0	1.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.9	12.1	48.8	29.6	6.6	.0	100.0	379

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	2.6	5.7	5.4	5.5	1.5	1.2	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	148
6-7	.0	.3	.9	4.4	6.0	4.0	3.1	1.8	2.6	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	156
8-9	.0	.2	1.2	1.1	2.6	1.8	2.6	.8	1.7	.6	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	85
10-11	.0	.5	.2	.5	.9	.9	.9	.2	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	30
12-13	.0	.0	.6	.2	.3	.5	.6	.3	.5	.8	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	27
13	.0	.0	.0	.3	.3	.3	.2	.0	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	12
INDET	1.5	1.4	4.3	4.9	8.6	2.1	3.2	1.1	1.7	.3	.3	.2	.3	.0	.0	.0	.0	.0	.0	.0	195
TOTAL	10	32	84	109	198	73	77	29	47	17	9	2	6	.0	.0	.0	.0	.0	.0	.0	653
PCT	1.5	4.9	12.9	16.7	24.2	11.2	11.8	4.4	7.2	2.6	1.4	.3	.9	.0	.0	.0	.0	.0	.0	.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1904-1973

AREA 0022 ONEKOTAN ISLAND
49.1N 152.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	.0	1.1	3.8	.0	22.7	.0	.0	27.7	13.6	.0	.0	.0	1.5	.0	57.2
NE	.0	.0	1.8	.0	24.1	.0	.0	25.9	8.5	.0	2.2	.0	.0	.0	63.4
E	2.1	.0	1.2	1.2	22.9	.0	.0	27.5	4.6	.0	2.1	.0	.0	.0	65.7
SE	4.7	2.8	5.5	.0	20.7	.0	.0	29.7	.0	.0	.0	.0	.0	.0	70.3
S	8.3	2.6	1.9	.0	17.9	.0	.0	26.3	9.0	.0	7.7	.0	.0	2.6	54.5
SW	.6	.0	2.9	.3	20.7	.0	.0	24.5	8.9	.0	.0	.0	.0	.0	66.6
W	.0	.0	.7	.5	24.4	.0	.0	25.5	9.5	.0	.0	.0	.7	.7	63.7
NW	.0	.2	.4	.0	24.9	.0	.0	25.4	9.0	.0	.0	.0	.0	.0	65.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	16.7	.0	.0	16.7	8.3	.0	8.3	.0	.0	.0	66.7
TOT PCT	1.1	.5	1.7	.3	22.9	.0	.0	26.0	8.5	.0	1.1	.0	.3	.3	63.8
TOT OBS:	650														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
0603	1.1	.6	1.7	.0	21.3	.0	.0	24.2	10.7	.0	1.7	.0	.0	.0	63.5
0609	1.1	1.1	1.1	.5	23.6	.0	.0	26.9	7.7	.0	1.6	.0	.0	1.1	62.6
12015	1.7	.0	1.7	.6	24.6	.0	.0	28.0	8.6	.0	1.1	.0	.6	.0	61.7
16021	.7	.7	2.1	.0	22.5	.0	.0	25.4	5.6	.0	.0	.0	.7	.0	68.3
TOT PCT	1.2	.6	1.6	.3	23.0	.0	.0	26.1	8.3	.0	1.2	.0	.3	.3	63.8
TOT OBS:	677														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	2.7	5.1	1.0	.6	.2		9.6	17.2		9.6	36.1	11.5	16.7	7.6	.0	6.6	15.0
NE	.4	1.7	3.7	1.7	.3	.0		7.8	17.3		17.5	.0	6.3	.0	6.8	.0	7.1	.0
E	.2	2.0	3.0	4.3	.6	.2		10.2	22.1		10.3	.0	10.6	16.7	9.3	.0	12.4	.0
SE	.0	.9	2.3	1.0	.0	.1		4.2	16.9		6.3	22.2	2.7	.0	3.9	.0	2.7	.0
S	.2	.9	3.2	2.4	.2	.0		6.8	19.1		7.6	.0	5.8	.0	9.7	.0	4.9	.0
SW	.5	2.5	6.5	2.6	.1	.0		12.3	17.2		7.8	11.1	12.1	16.7	12.0	.0	18.7	10.0
W	.2	2.0	13.9	7.6	3.7	.2		27.6	22.1		24.3	11.1	28.3	16.7	30.6	100.0	27.2	30.0
NW	.4	2.8	10.8	5.0	1.8	.0		20.9	19.5		21.7	19.4	21.9	33.3	18.4	.0	20.3	45.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6							.6	.0		.0	.0	.8	.0	1.7	.0	.0	.0
TOT OBS	12	72	226	119	34	3	466		19.5		112	9	120	6	121	2	91	5
TOT PCT	2.6	15.5	48.5	25.5	7.3	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	.8	4.4	2.9	1.3	.2		9.6	17.2	11.6	11.7	7.5	7.0
NE	.8	2.4	3.8	.8	.1		7.8	17.3	11.6	6.0	6.7	6.8
E	1.0	2.1	3.4	3.4	.3		10.2	22.1	9.5	10.9	9.1	11.7
SE	.1	2.6	1.1	.4	.1		4.2	16.9	7.4	2.6	3.9	2.6
S	.4	1.8	4.0	.6	.0		6.8	19.1	7.0	5.6	9.6	4.7
SW	1.4	3.9	5.6	1.3	.1		12.3	17.2	8.1	12.3	11.8	18.2
W	.5	8.3	12.0	4.9	1.8		27.6	22.1	23.3	27.8	31.7	27.3
NW	1.3	6.9	8.9	3.5	.2		20.9	19.5	21.5	22.4	18.1	21.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6						.6	.0	.0	.8	1.6	.0
TOT OBS	32	151	194	76	13	466		19.5	121	126	123	96
TOT PCT	6.9	32.4	41.6	16.3	2.8		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1908-1973

AREA 0022 ONEKOTAN ISLAND
49.1N 152.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	.0	2.5	15.7	46.3	27.3	8.3	.0	19.5	100.0	121
0600	.8	.8	17.5	46.8	25.4	7.9	.0	19.8	100.0	126
1200	1.6	2.4	17.1	48.8	23.6	5.7	.8	18.5	100.0	123
1800	.0	2.1	10.4	53.1	26.0	7.3	1.0	20.7	100.0	96
TOT	3	9	72	226	119	34	3	19.5		466
PCT	.6	1.9	15.5	48.5	25.5	7.3	.6	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCH	TOTAL OBS	MEAN CLOUD COVER
N	.3	1.2	3.3	5.8		6.8
NE	.8	.6	2.7	4.6		6.3
E	.5	.6	3.9	7.1		6.9
SE	.5	.4	1.4	3.9		6.8
S	.1	.6	1.2	3.7		7.0
SW	1.0	2.3	5.1	4.5		5.8
W	1.2	1.0	11.8	10.0		6.6
NW	1.4	1.4	7.7	8.7		6.4
VAR	.0	.0	.0	.0		.0
CALM	.0	.2	.8	.8		6.8
TOT OBS	30	42	189	252	513	6.5
TOT PCT	5.8	8.2	36.8	49.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	TOTAL OBS
N	1.2	.2	.1	.2	3.4	3.3	.3	.0	.0	.0	1.8
NE	.3	.0	.2	1.0	1.9	2.1	.2	.2	.0	.3	2.2
E	1.9	.2	.2	.4	1.3	4.9	1.0	.2	.1	.0	1.8
SE	.8	.0	.0	.2	.2	2.9	.9	.0	.2	.0	1.1
S	.7	.0	.0	.3	1.2	1.8	.3	.0	.0	.2	1.1
SW	1.6	.0	.0	.6	2.4	2.7	.8	.2	.0	.2	4.2
W	1.9	.2	.7	1.3	6.2	7.6	.9	.5	.5	.5	3.6
NW	1.0	.0	.7	1.4	4.6	4.9	1.7	.2	.2	.2	3.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.0	.0	.2	.6	.2	.0	.0	.0	.0	.6
TOT OBS	49	3	10	29	111	156	32	7	5	6	105
TOT PCT	9.6	.6	1.9	5.7	21.6	30.4	6.2	1.4	1.0	1.2	20.5

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.8	1.5	1.7	2.1	2.1	2.3	2.3	2.3
= OR >4000	1.7	2.7	3.4	3.8	3.8	4.0	4.0	4.0
= OR >3500	5.7	8.1	9.7	10.2	10.2	10.4	10.4	10.4
= OR >2000	17.6	29.4	35.4	38.6	39.2	39.4	39.8	39.8
= OR >1000	23.3	43.8	53.6	58.7	60.6	60.8	61.6	61.6
= OR >600	24.4	46.4	58.0	63.6	65.9	66.1	67.0	67.0
= OR >300	24.6	46.8	58.7	65.2	67.4	67.8	68.9	68.9
= OR >150	24.6	47.2	59.1	65.5	67.8	68.2	69.5	69.5
= OR >0	24.6	48.3	60.4	68.2	72.7	75.4	78.4	79.2
TOTAL	130	255	319	360	384	398	414	418

TOTAL NUMBER OF OBS: 528

PCT FREQ NH <5/8 20.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCH	TOTAL OBS
3.3	2.3	3.5	3.5	6.3	6.8	11.4	13.6	40.8	603

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1964-1973

DECEMBER

AREA 0022 ONEKOTAN ISLAND
49.1N 152.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.6	.7	.9	.5	.2	1.0	1.8	.8	.0	.2	6.8	
	NO PCP	.0	.3	.3	.0	.3	.0	.0	.0	.0	.2	1.1	
	TOT %	.6	1.0	1.2	.5	.5	1.0	1.8	.8	.0	.3	7.9	
1/2<1	PCP	.4	.3	1.0	.1	.2	.4	1.3	.5	.0	.2	4.5	
	NO PCP	.0	.2	.2	.0	.2	.0	.2	.2	.0	.0	.8	
	TOT %	.4	.4	1.2	.1	.3	.5	1.5	.7	.0	.2	5.2	
1<2	PCP	.6	.4	1.0	.5	.2	.3	1.2	1.7	.0	.0	5.9	
	NO PCP	.0	.0	.2	.0	.2	.2	.6	.5	.0	.2	1.7	
	TOT %	.6	.4	1.2	.5	.3	.4	1.8	2.2	.0	.2	7.6	
2<5	PCP	.8	.5	.2	.3	.6	1.2	.8	1.3	.0	.0	5.7	
	NO PCP	.7	.8	.9	.4	.5	2.0	2.2	1.5	.0	.0	8.9	
	TOT %	1.5	1.2	1.0	.7	1.1	3.2	3.1	2.8	.0	.0	14.6	
5<10	PCP	.3	.3	.3	.2	.3	.0	.6	.3	.0	.0	2.3	
	NO PCP	3.5	2.3	3.6	.9	1.7	2.6	6.7	6.4	.0	.5	28.0	
	TOT %	3.7	2.6	3.9	1.1	2.0	2.6	7.3	6.7	.0	.5	30.4	
10+	PCP	.0	.0	.2	.0	.3	.4	.1	.3	.0	.0	.9	
	NO PCP	3.2	2.9	4.0	2.6	1.6	4.4	7.7	6.2	.0	.6	33.4	
	TOT %	3.2	2.9	4.2	2.6	1.9	4.8	7.9	6.5	.0	.6	34.4	
TOT OBS													
TOT PCT		10.1	8.5	12.7	5.6	6.1	12.2	23.4	19.6	.0	1.8	100.0	649

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.2	.5	.0	.1	.2	.2	.0	.0	.0	.0	1.1	
	11-21	.4	.5	.2	.2	.4	.9	1.2	.2	.0	.0	3.9	
	22+	.2	.1	.6	.0	.0	.1	1.2	.8	.0	.0	2.9	
	TOT %	.7	1.2	.8	.3	.5	1.2	2.3	1.0	.0	.2	8.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	11-21	.2	.2	.2	.0	.2	.2	1.0	.1	.0	.0	2.2	
	22+	.0	.1	.9	.1	.2	.1	.8	.0	.0	.0	2.2	
	TOT %	.2	.3	1.2	.1	.4	.3	1.9	.3	.0	.2	4.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.0	.0	.0	.2	.2	.0	.0	.7	
	11-21	.2	.1	.4	.2	.4	.1	.6	1.2	.0	.0	3.1	
	22+	.2	.5	.7	.4	.0	.3	1.4	.9	.0	.0	4.4	
	TOT %	.5	.5	1.0	.7	.4	.3	2.2	2.3	.0	.0	8.1	
2<5	0-3	.0	.0	.0	.0	.2	.0	.0	.4	.0	.0	.7	
	4-10	.2	.2	.2	.0	.2	.5	.0	.4	.0	.0	1.8	
	11-21	.8	.9	.0	.2	.2	1.9	1.6	1.6	.0	.0	7.2	
	22+	.4	.0	.9	.1	.7	.9	1.9	1.1	.0	.0	5.9	
	TOT %	1.4	1.1	1.1	.3	1.3	3.3	3.6	3.6	.0	.0	15.6	
5<10	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.4	
	4-10	1.6	.5	1.1	.4	.2	.7	.9	.7	.0	.0	5.5	
	11-21	1.8	.9	.9	.4	.8	1.4	3.8	4.5	.0	.0	14.5	
	22+	.4	.7	1.5	.3	1.3	.3	3.7	1.8	.0	.0	9.9	
	TOT %	3.1	2.0	3.7	1.2	2.2	2.4	8.4	7.0	.0	.2	30.3	
10+	0-3	.0	.4	.0	.0	.0	.5	.2	.0	.0	.0	1.1	
	4-10	1.2	.5	.7	.4	.4	1.2	.9	1.3	.0	.0	6.6	
	11-21	1.5	1.2	1.2	1.0	1.2	2.0	6.0	3.5	.0	.0	17.5	
	22+	.6	.4	.7	.2	.4	1.2	2.1	2.2	.0	.0	7.9	
	TOT %	3.3	2.6	2.5	1.6	2.0	4.9	9.2	7.0	.0	.0	33.1	
TOT OBS													
TOT PCT		9.3	7.7	10.3	4.1	7.0	12.3	27.5	21.2	.0	.7	100.0	456

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1908-1973

AREA 0022 ONEKOTAN ISLAND
49.1N 152.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	4.5	.6	2.6	4.5	23.2	32.3	7.7	1.3	.6	1.9	79.4	20.6	155
06009	8.7	1.2	1.9	9.3	24.2	31.7	7.5	.6	1.2	.0	86.3	13.7	161
12015	10.1	.0	2.3	3.1	22.5	27.9	3.1	2.3	1.6	.8	73.6	26.4	129
18021	18.9	.0	.0	4.2	12.6	24.2	6.3	3.2	1.1	2.1	72.6	27.4	95
TOT	92	3	10	30	116	160	34	9	6	6	426	114	540
PCT	9.6	.6	1.9	5.6	21.5	29.6	6.3	1.7	1.1	1.1	78.9	21.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	6.7	4.5	8.4	8.4	26.8	45.3	179
06009	8.3	5.5	5.9	12.2	27.1	41.4	181
12015	7.4	5.1	9.7	20.6	32.0	25.1	175
18021	9.2	5.0	7.8	17.0	37.6	23.4	141
TOT	33	34	53	97	206	233	676
PCT	7.8	5.0	7.8	14.3	30.5	34.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	4.5	13.6	27.9	53.2	18.8	154
06009	8.9	16.5	36.7	50.0	13.3	158
12015	10.3	17.5	46.0	33.3	20.6	126
18021	20.0	22.2	46.7	31.1	22.2	90
TOT	52	89	201	231	96	528
PCT	9.8	16.9	38.1	43.8	18.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	.0	3.8	3.8	7.7	4	15.4
35/39	.0	.0	.0	.0	.0	3.8	3.8	11.5	5	19.2
30/34	.0	.0	.0	3.8	.0	7.7	15.4	15.4	11	42.3
25/29	.0	.0	.0	.0	.0	.0	11.5	3.8	4	15.4
20/24	.0	.0	.0	.0	.0	.0	.0	7.7	2	7.7
TOTAL	.0	.0	.0	1	0	4	9	12	26	100.0
PCT	.0	.0	.0	3.8	.0	15.4	34.6	46.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
6.7	.0	.0	.0	.0	1.0	6.7	1.0	.0	.0
.0	.0	.0	4.8	6.7	.0	3.8	3.8	.0	.0
.0	3.8	11.5	3.8	.0	12.5	10.6	.0	.0	.0
7.7	.0	.0	.0	.0	.0	6.7	1.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	7.7	.0	.0
14.4	3.8	11.5	8.7	6.7	13.5	27.9	13.5	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	43	42	39	30	19	17	16	29.6	171
06009	44	42	37	29	21	18	17	29.2	178
12015	41	40	37	29	20	16	14	28.8	165
18021	45	41	39	28	19	16	12	28.8	137
TOT	45	41	37	29	19	16	12	29.1	651

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	12.5	.0	.0	37.5	50.0	85	8
06009	.0	.0	.0	50.0	33.3	16.7	83	6
12015	.0	.0	.0	.0	50.0	50.0	89	8
18021	.0	.0	.0	25.0	.0	75.0	86	4
TOT	0	1	0	4	9	12	86	26

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1963-1973

DECEMBER

AREA 0022 ONEKOTAN ISLAND
49.1N 152.1E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	WD FOG
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
4	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	3	.0	.5
3	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	3	.0	.5
2	.0	.0	.0	.0	.0	.0	.3	.7	.2	.2	8	.0	1.4
1	.0	.0	.0	.0	.0	.0	.3	1.6	.2	.0	12	.0	2.1
0	.0	.0	.0	.0	.0	.2	.9	.9	.2	.0	12	.0	2.1
-1	.0	.0	.0	.0	.0	.3	2.9	1.6	.2	.0	29	.0	5.0
-2	.0	.0	.0	.0	.0	.3	2.9	.0	.2	.0	20	.0	3.4
-3	.0	.0	.0	.0	.0	1.6	3.1	1.2	.0	.0	34	.0	5.9
-4	.0	.0	.0	.0	.0	.9	1.2	.2	.0	.0	13	.0	2.2
-5	.0	.0	.0	.0	.3	3.4	2.8	.2	.0	.0	39	.2	6.6
-6	.0	.0	.0	.0	1.2	4.5	2.8	.2	.0	.0	50	.3	8.3
-7/-8	.0	.0	.0	.2	7.1	4.8	.5	.0	.0	.0	27	.0	4.7
-9/-10	.0	.0	.0	1.6	7.8	2.4	.5	.0	.0	.0	78	.0	13.4
-11/-13	.0	.0	.3	6.6	5.9	1.0	.2	.2	.0	.0	71	.0	12.2
-14/-16	.0	.0	1.6	4.3	3.4	.3	.0	.0	.0	.0	82	.0	14.1
-17/-19	.0	.0	1.0	2.2	.2	.3	.0	.0	.0	.0	56	.0	9.7
-20/-22	.0	.5	1.6	.0	.5	.0	.0	.0	.0	.0	22	.0	3.8
-23/-25	.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	15	.0	2.6
-26/-30	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	3	.0	.5
TOTAL	1	4	27	67	162	133	115	41	9	1	580	3	577
PCT	.7	.7	4.7	15.0	27.9	22.9	19.8	7.1	1.6	.2	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.3	.6	.0	.0	.0	.0	.9
1-2	.0	1.4	.9	.0	.0	.0	2.3	.0	.5	.2	.0	.0	.0	.9
3-4	.0	.3	.6	.0	.0	.0	.9	.0	.3	.3	.3	.0	.0	.6
5-6	.0	.2	1.1	.0	.0	.0	1.3	.0	.0	1.0	.0	.0	.0	.9
7	.0	.0	.5	.2	.0	.0	.8	.0	.0	1.2	.1	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.6	.0	.0	1.3
10-11	.0	.0	.6	.0	.5	.0	.0	.0	.0	.0	.3	.0	.0	.9
12	.0	.0	.0	.2	.0	.0	1.2	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.2	.3	.0	.0	.2	.0	.0	.0	.2	.0	.0	.9
17-19	.0	.0	.0	.0	.0	.3	.3	.0	.0	.1	.3	.3	.0	.7
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TUT PCT	.0	2.6	4.0	.8	.5	.3	8.2	.3	1.4	3.1	2.4	.4	.0	7.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.9	.8	.0	.0	.0	1.6	.0	.5	.6	.0	.0	.0	.9
3-4	.0	.0	.9	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	1.1
5-6	.0	.0	.3	.6	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.6	.9	.0	.0	1.6	.0	.0	.6	.9	.0	.0	.9
8-9	.0	.0	.3	.3	.0	.2	.9	.0	.0	.6	.1	.0	.0	.7
10-11	.0	.0	.3	.9	.3	.0	1.5	.0	.0	.0	.3	.0	.1	.4
12	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	1.2	.3	.0	1.6	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TUT PCT	.0	1.5	3.3	5.7	.9	.2	11.6	.0	.8	1.2	1.4	.0	.1	3.5

PERIOD: (OVER-ALL) 1963-1973

DECEMBER

AREA 0022 ONEKOTAN ISLAND
49.1N 152.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.3	1.2	.0	.0	.0	.0	1.6
1-2	.0	.5	.3	.0	.0	.0	.8	.0	.1	.5	.0	.0	.0	.5
3-4	.0	.0	.6	.0	.0	.0	.6	.0	.7	1.1	.5	.0	.0	2.3
5-6	.0	.0	1.5	.6	.0	.0	2.1	.0	.0	.9	.3	.0	.0	1.2
7	.0	.0	.5	.9	.0	.0	1.3	.0	.0	1.2	1.0	.0	.0	2.3
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	1.9	.7	.0	.0	2.6
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.2	.0	.0	.2
12	.0	.0	.0	.2	.3	.0	.5	.0	.0	.3	.4	.0	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	.1	.0	.8
17-19	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	2.9	3.1	.3	.0	6.8	.3	2.0	6.4	3.5	.2	.0	12.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.2	.6	.0	.0	.0	.9	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	.3	.8	.0	.0	.0	1.1	.0	.6	.7	.0	.0	.0	1.3	
3-4	.0	.5	5.0	1.1	.0	.0	6.5	.0	.1	2.6	.6	.0	.0	3.3	
5-6	.0	.3	3.5	.8	.0	.0	4.6	.0	.1	2.3	.8	.0	.0	3.1	
7	.0	.3	3.3	1.3	.3	.0	5.3	.0	.0	1.2	.8	.0	.0	2.0	
8-9	.0	.0	.5	1.7	.0	.0	2.2	.0	.0	.4	1.4	.9	.0	2.7	
10-11	.0	.0	.5	1.7	1.2	.0	3.5	.0	.3	.9	1.9	.4	.0	3.6	
12	.0	.0	.2	.6	.2	.0	1.1	.0	.3	.4	.3	.1	.0	1.1	
13-16	.0	.0	.0	.9	2.1	.0	3.0	.0	.3	.6	.0	.0	.0	.9	
17-19	.0	.0	.0	.5	.3	.3	1.1	.0	.0	.0	.1	.3	.0	.4	
20-22	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.3	.0	.3	
33-40	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.6	14.4	8.5	5.4	.3	30.3	.0	2.1	9.2	5.9	2.0	.0	19.2	99.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.2	4.0	.6	.0	.0	.0	5.9	
1-2	.0	4.7	4.7	.0	.0	.0	9.3	
3-4	.0	1.9	11.2	3.4	.0	.0	16.5	
5-6	.0	.6	10.6	4.0	.0	.0	15.2	
7	.0	.3	9.3	5.3	.3	.0	15.2	
8-9	.0	.0	3.4	5.6	.9	.3	10.2	
10-11	.0	.3	2.5	5.3	2.5	.0	10.6	
12	.0	.3	.9	2.5	.6	.0	4.3	
13-16	.0	.3	1.2	3.1	2.8	.0	7.5	
17-19	.0	.0	.0	1.2	.9	.6	2.8	
20-22	.0	.0	.0	.9	.6	.0	1.6	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.6	.0	.6	
33-40	.0	.0	.0	.0	.3	.0	.3	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.2	12.4	44.4	31.4	9.6	.9	100.0	322

PERIOD: (OVER-ALL) 1957-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.2	4.9	8.5	4.2	3.9	1.7	1.7	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	153	5
6-7	.2	1.0	1.4	4.7	4.2	3.6	3.9	1.2	2.7	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	138	8
8-9	.0	.0	.5	2.4	4.2	1.5	3.2	.7	1.0	1.0	.7	.0	.5	.0	.0	.0	.0	.0	.0	93	10
10-11	.0	.3	.3	.2	.7	1.2	.3	.3	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	9
12-13	.0	.0	.7	.2	.0	.2	.3	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	8
>13	.0	.0	.0	.3	.3	.0	.2	.2	.5	.0	.2	.0	.2	.2	.0	.0	.0	.0	.0	12	14
INDEX	.7	2.2	3.7	3.6	3.2	3.1	3.2	2.9	2.4	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	154	8
TOTAL	6	50	89	92	98	66	76	36	50	14	8	0	4	1	0	0	0	0	0	590	7
PCT	1.0	8.5	15.1	15.6	16.6	11.2	12.9	6.1	8.5	2.4	1.4	.0	.7	.2	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1870-1974

ANNUAL

TABLE 1

AREA 0022 ONEKOTAN ISLAND
49.3N 152.5E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.8	.3	1.8	.1	13.5	.0	.1	17.3	3.1	.0	16.0	.7	1.1	.3	61.5
NE	4.4	.4	3.3	.0	11.6	.1	.0	19.3	5.0	.0	14.7	.7	.9	.3	58.8
E	7.0	.1	3.8	.1	9.8	.0	.0	20.7	4.8	.0	15.8	.6	.6	.3	57.2
SE	7.3	.3	4.4	.0	5.6	.2	.0	17.3	3.1	.2	22.2	.7	.6	.1	56.0
S	7.2	.4	2.8	.1	7.1	.0	.0	17.0	4.2	.0	21.4	.6	.8	.2	55.8
SW	2.3	.2	2.1	.0	9.8	.0	.4	14.6	4.3	.1	19.3	1.0	.3	.2	60.3
W	1.5	.3	1.7	.3	12.4	.6	.0	16.0	4.5	.1	15.6	.6	.4	.3	62.5
NW	1.0	.4	.8	.0	12.1	.2	.1	14.2	4.9	.0	15.4	.8	.4	.4	63.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6	.1	.7	.0	6.9	.0	.0	8.3	1.5	.0	20.4	.6	.5	.0	68.7
TOT PCT	3.6														
TOT OBS: 11902	.3	2.2	.1	11.3	.1	.1	17.3	4.4	.1	17.4	.7	.6	.3	59.3	

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.6	.4	2.1	.0	10.9	.1	.1	16.8	4.5	.1	18.3	.7	.5	.4	58.8
0600	3.3	.2	1.8	.0	10.5	.1	.1	15.8	4.6	.0	16.6	.7	.5	.3	61.4
1200	3.7	.3	2.6	.2	11.7	.1	.0	18.4	4.7	.1	17.3	.6	.5	.4	58.0
1800	3.5	.3	2.5	.2	12.2	.0	.0	18.3	3.8	.0	17.8	.5	.7	.2	58.8
TOT PCT	3.5														
TOT OBS: 12441	.3	2.2	.1	11.3	.1	.1	17.3	4.4	.0	17.5	.7	.5	.3	59.2	

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	3.4	4.6	1.8	.3	*		10.5	14.6	9.5	20.2	10.2	10.6	11.1	8.7	10.3	8.9	
NE	.5	3.5	3.8	1.6	.2	.0		9.6	14.1	10.3	7.3	9.5	5.4	10.0	9.5	8.6	6.9	
E	.4	2.6	2.9	2.0	.4	*		8.4	17.0	7.9	4.9	9.1	6.9	8.8	6.6	8.0	6.5	
SE	.5	2.8	3.7	1.6	.3	*		8.9	16.0	9.8	10.9	8.8	6.7	8.3	7.7	7.7	9.2	
S	.4	3.2	5.2	1.7	.3	.0		10.9	16.4	11.2	9.8	10.4	10.9	10.3	12.8	11.2	8.5	
SW	.7	4.1	5.9	1.7	.2	.0		12.7	14.9	12.3	10.0	12.6	15.7	13.3	15.5	12.8	13.0	
W	.5	4.0	7.5	3.7	1.1	*		16.8	16.2	17.3	17.4	16.0	16.6	16.5	22.1	18.3	17.5	
NW	.4	4.2	8.3	4.6	1.0	*		18.4	16.2	18.3	18.4	19.7	24.8	17.2	15.2	17.7	28.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.7							3.7	.0	3.5	1.0	3.6	2.2	4.5	2.0	5.3	1.3	
TOT OBS							10624		15.4	2315	610	2220	547	2266	421	1745	500	
TOT PCT	7.5	27.9	41.9	18.7	3.9	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.8	4.6	3.2	.9	.1	10.5	14.6	10.0	10.5	11.2	10.4		
NE	2.0	4.3	2.7	.6	.1	9.6	14.1	10.1	9.2	10.2	8.5		
E	1.6	2.9	2.5	1.2	.1	8.4	17.0	7.6	9.1	8.8	8.3		
SE	1.7	3.8	2.6	.8	.1	8.9	16.0	10.1	8.6	8.5	8.1		
S	1.7	4.5	3.8	.8	.1	10.9	16.4	11.3	10.7	10.5	11.0		
SW	2.4	5.8	3.6	.7	.1	12.7	14.9	11.9	12.8	13.2	13.0		
W	2.0	6.5	5.9	2.0	.4	16.8	16.2	17.4	16.0	16.3	18.1		
NW	1.9	7.1	6.8	2.5	.1	18.4	16.2	18.6	19.7	17.1	18.1		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.7					3.7	.0	2.9	3.4	4.2	4.4		
TOT OBS						10624		2925	2767	2687	2245		
TOT PCT	18.8	39.5	31.2	9.4	1.1	100.0	15.4	100.0	100.0	100.0	100.0		

ANNUAL

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1870-1974

AREA 0022 ONEKOTAN ISLAND
49.3N 152.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.9	3.9	28.8	40.6	19.7	4.0	.0	15.6	100.0	2925
06009	3.4	3.4	24.8	43.5	20.3	4.6	.1	16.1	100.0	2767
12015	4.2	3.8	28.8	43.0	16.6	3.4	.2	14.9	100.0	2687
18021	4.4	4.6	29.2	40.8	17.7	3.4	.1	14.9	100.0	2245
TOT								15.4		10624
PCT	3.7	3.9	27.9	41.9	18.7	3.9	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	.8	3.5	5.8		6.6
NE	.7	.7	1.9	5.9		6.7
E	.3	.4	1.9	6.5		7.2
SE	.5	.3	1.3	6.2		7.0
S	1.2	.6	1.7	7.0		6.6
SW	2.0	1.1	3.3	6.2		6.0
W	2.4	1.6	5.8	6.9		5.9
NW	1.8	1.5	6.7	8.3		6.2
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.7	2.6		5.9
TOT OBS					8878	6.4
TOT PCT	10.5	7.3	26.8	55.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.6	*	.3	.5	2.4	3.0	.6	.1	.1	.1	2.2	
NE	1.6	*	.3	.5	1.9	2.2	.6	.1	.1	.1	1.8	
E	2.0	.1	.2	.6	1.7	2.3	.6	.2	.1	.1	1.2	
SE	2.5	*	.1	.4	1.3	1.9	.5	.2	.1	.1	1.1	
S	2.8	.1	.2	.5	1.7	1.9	.5	.1	.1	.1	2.4	
SW	2.7	*	.2	.5	1.8	2.4	.6	.1	.1	.2	4.0	
W	2.0	.1	.4	.7	3.1	4.0	.9	.2	.2	.2	4.9	
NW	2.3	.1	.4	.9	3.9	4.8	1.4	.2	.1	.2	4.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3	*	*	.1	.4	.8	.3	*	.1	.1	1.1	
TOT OBS												8878
TOT PCT	18.9	.5	1.9	4.7	18.1	23.4	6.2	1.2	1.0	1.0	23.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.1	1.9	2.0	2.0	2.0	2.1	2.1	2.1
>5000	1.6	2.9	3.3	3.3	3.3	3.4	3.4	3.4
>3500	4.9	8.2	9.2	9.4	9.5	9.6	9.6	9.6
>2000	14.9	26.5	30.6	31.6	32.3	32.7	32.9	32.9
>1000	19.9	37.8	45.5	47.8	49.3	50.1	50.7	50.8
>600	20.8	40.3	49.4	52.1	53.8	54.7	55.5	55.5
>300	21.1	41.1	50.8	53.7	55.6	56.6	57.4	57.5
>150	21.1	41.3	51.2	54.1	56.1	57.1	57.9	58.0
>0	21.2	42.4	53.8	58.5	62.5	67.9	76.1	77.1

TOTAL NUMBER OF OBS: 9056

PCT FREQ NH <5/8: 22.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	7.0	2.3	4.5	3.6	4.6	4.7	8.4	9.8	37.5	17.6	9998

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1870-1974

ANNUAL

AREA 0022 ONEKOTAN ISLAND
49.3N 152.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.4	.4	.3	.4	.4	.6	.6	.0	.1	3.6	
	NO PCP	1.0	1.0	1.1	1.7	1.9	2.2	1.2	1.2	.0	1.0	12.3	
	TOT %	1.3	1.4	1.5	2.0	2.3	2.6	1.8	1.9	.0	1.0	15.9	
1/2<1	PCP	.2	.2	.3	.1	.1	.2	.6	.5	.0	*	2.4	
	NO PCP	.2	.2	.2	.3	.3	.2	.2	.3	.0	.1	2.1	
	TOT %	.5	.4	.5	.4	.4	.5	.8	.8	.0	.1	4.5	
1<2	PCP	.4	.4	.3	.3	.3	.3	.5	.6	.0	*	3.1	
	NO PCP	.2	.2	.2	.2	.4	.2	.3	.4	.0	.1	2.1	
	TOT %	.5	.5	.6	.5	.7	.5	.8	1.0	.0	.1	5.3	
2<5	PCP	.8	.5	.5	.5	.5	.4	.7	1.1	.0	*	5.1	
	NO PCP	1.0	.8	.9	.6	.9	.7	1.5	1.6	.0	.2	8.4	
	TOT %	1.8	1.3	1.4	1.1	1.4	1.2	2.2	2.7	.0	.3	13.4	
5<10	PCP	.3	.3	.3	.3	.3	.3	.6	.5	.0	*	2.9	
	NO PCP	2.7	2.3	2.0	1.8	2.7	3.0	4.1	4.6	.0	.7	23.8	
	TOT %	3.0	2.6	2.3	2.1	3.0	3.3	4.7	5.1	.0	.7	26.7	
10+	PCP	.1	.1	*	*	*	*	.1	.1	.0	*	.6	
	NO PCP	3.3	3.0	2.8	2.4	3.0	4.8	6.1	6.5	.0	1.7	33.7	
	TOT %	3.4	3.1	2.8	2.4	3.1	4.8	6.2	6.7	.0	1.7	34.3	
TOT OBS													11789
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.2	.1	.2	.2	.3	.1	.1	.0	1.0	2.3	
	4-10	.6	.7	.6	.8	1.0	1.2	.7	.7	.0		6.3	
	11-21	.5	.4	.3	.9	.9	1.2	.6	.7	.0		5.5	
	22+	.1	.2	.4	.2	.3	.2	.6	.6	.0		2.7	
	TOT %	1.3	1.5	1.5	2.1	2.3	2.9	2.0	2.1	.0	1.0	16.6	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	.1	.3	
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0		.9	
	11-21	.2	.2	.1	.2	.2	.2	.4	.2	.0		1.6	
	22+	.1	.1	.2	.1	.1	.1	.3	.3	.0		1.2	
	TOT %	.3	.4	.4	.5	.4	.4	.9	.7	.0	.1	4.1	
1<2	0-3	*	*	*	*	*	*	*	*	.0	.1	.3	
	4-10	.1	.2	.1	.1	.1	.1	.2	.3	.0		1.3	
	11-21	.2	.3	.1	.2	.4	.2	.2	.4	.0		2.0	
	22+	.1	.2	.2	.2	.2	.2	.3	.4	.0		1.8	
	TOT %	.5	.7	.4	.6	.7	.5	.8	1.1	.0	.1	5.3	
2<5	0-3	*	*	*	*	.1	.1	.1	.1	.0	.3	.7	
	4-10	.5	.5	.2	.3	.3	.3	.3	.4	.0		2.7	
	11-21	.8	.5	.5	.5	.7	.5	1.2	1.2	.0		5.9	
	22+	.5	.3	.4	.4	.4	.3	.8	1.2	.0		4.3	
	TOT %	1.9	1.3	1.2	1.2	1.5	1.2	2.3	2.8	.0	.3	13.6	
5<10	0-3	.1	.1	.1	.1	.1	.1	.1	*	.0	.7	1.2	
	4-10	.8	.7	.6	.6	.7	1.0	1.0	.9	.0		6.2	
	11-21	1.3	1.0	.8	.9	1.4	1.4	2.1	2.6	.0		11.6	
	22+	.6	.6	.6	.6	.6	.7	1.7	1.6	.0		7.0	
	TOT %	2.8	2.4	2.1	2.1	2.8	3.1	4.8	5.1	.0	.7	26.0	
10+	0-3	.2	.2	.2	.1	.1	.2	.2	.2	.0	1.6	2.8	
	4-10	1.3	1.3	.9	.9	1.0	1.4	1.7	1.8	.0		10.4	
	11-21	1.6	1.4	1.1	1.1	1.5	2.5	3.2	3.2	.0		15.5	
	22+	.5	.4	.5	.3	.5	.6	1.2	1.5	.0		5.5	
	TOT %	3.6	3.2	2.7	2.4	3.1	4.7	6.3	6.7	.0	1.6	34.3	
TOT OBS													10208
TOT PCT													100.0

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1870-1974

ANNUAL

AREA 0022 UNEKIDIAN ISLAND
49.3N 152.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	15.3	.7	2.1	4.9	19.0	26.2	6.8	1.2	1.4	1.4	78.9	21.1	2783
06009	15.9	.5	2.6	5.2	19.4	24.7	7.4	1.2	1.1	1.0	79.0	21.0	2581
12015	22.9	.4	1.4	3.5	16.4	20.0	4.9	.8	.7	.8	71.8	28.2	2221
18021	24.4	.3	1.2	5.4	14.4	18.9	4.7	2.2	.8	.6	72.8	27.2	1784
TOT PCT	19.0	.5	1.9	4.7	17.7	23.0	6.1	1.3	1.1	1.0	76.2	23.8	9369 100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	16.5	4.2	5.4	11.9	23.2	38.8	3582
06009	15.0	4.3	5.1	14.0	24.5	37.1	3348
12015	18.1	5.4	5.8	14.1	27.7	28.9	3241
18021	18.0	4.7	4.6	15.3	28.5	26.7	2696
TOT PCT	16.8	4.7	5.7	13.7	25.8	33.3	12867 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	15.5	23.1	37.9	43.6	18.5	2713
06009	15.9	22.4	38.7	43.0	18.2	2521
12015	23.3	29.8	45.3	30.6	24.1	2122
18021	25.0	30.8	48.2	29.3	22.5	1700
TOT PCT	19.2	25.8	41.7	37.8	20.4	9056 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.1	.0	.0	.0	.0	.0	.0	.2	
60/64	.0	.0	.0	.1	.1	.1	.1	.0	.4	
55/59	.0	.1	.1	.2	.1	.2	.5	.5	1.6	
50/54	.0	.0	.1	.1	.3	.8	2.2	4.7	8.2	
45/49	.0	.0	.0	.4	.9	1.2	3.6	11.8	18.0	
40/44	.0	.0	.0	.4	1.2	2.1	3.1	7.4	14.2	
35/39	.0	.0	.0	.2	1.2	1.5	4.0	9.2	16.0	
30/34	.0	.0	.2	1.0	.3	2.0	5.7	11.6	21.0	
25/29	.0	.0	.0	.3	.7	1.0	3.6	5.8	11.5	
20/24	.0	.0	.0	.0	.5	.8	1.8	2.2	5.3	
15/19	.0	.0	.0	.0	.2	.2	.8	2.1	3.2	
10/14	.0	.0	.0	.0	.0	.0	.3	.2	.5	
TOTAL PCT	.0	.2	.5	2.6	5.5	9.8	25.7	55.6	1024	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.0	.0	.0	.0	.1	.0	.0	.0
.1	.2	.1	.0	.0	.0	.0	.0	.0	.0
.3	.3	.2	.1	.1	.1	.4	1.1	.0	.1
.9	1.1	.5	.4	1.5	1.4	.6	1.5	.0	.2
1.6	1.5	1.5	1.3	2.8	2.6	3.0	2.8	.0	.3
2.1	.7	.6	1.6	2.1	1.6	3.0	1.9	.0	.6
.9	1.0	.9	1.6	3.2	2.6	3.4	1.9	.0	.5
.5	1.1	4.4	1.6	2.9	3.2	4.3	2.2	.0	.7
2.4	1.1	.7	.0	1.2	.7	1.3	3.6	.0	.4
.3	.2	.0	.0	.6	.4	1.3	2.6	.0	.0
1.1	.2	.0	.0	.1	.*	.9	.9	.0	.0
.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.7	7.2	9.1	6.7	14.5	12.7	18.3	17.4	.0	3.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	76	51	47	38	29	24	3	41.9	3501
06009	78	52	47	38	29	25	5	42.4	3286
12015	73	49	44	36	27	24	2	40.4	3278
18021	77	50	44	36	28	24	2	40.3	2709
TOT	78	51	46	37	29	24	2	41.3	12724

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.7	9.9	8.9	24.5	50.9	87	323
06009	.0	3.4	3.3	16.0	27.4	50.0	89	277
12015	.0	.8	3.2	7.4	26.9	61.7	91	224
18021	.0	2.4	5.8	8.7	20.3	62.7	91	207
TOT	0	29	48	84	218	652	89	1031

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1870-1974

ANNUAL

AREA 0022 ONEKOTAN ISLAND
49.3N 152.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)																					TOT	WD
AIR-SEA TMP DIFF	05 03	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	FOG	FOG	
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	.0	4	*	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	.0	29	.1	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	.0	18	*	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	.0	58	.1	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	.3	.2	.2	.1	*	*	*	.0	166	.3	.7
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.3	.4	.3	.2	.1	*	*	*	.0	212	.4	1.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	.3	.6	.3	.2	.1	*	*	.0	320	.7	1.4
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	.2	.2	.2	.1	*	*	*	.0	140	.2	.8
5	.0	.0	.0	.0	.0	.0	.0	.1	.6	.5	.9	.6	.4	.2	.1	*	*	*	.0	486	1.1	2.3
4	.0	.0	.0	.0	.0	.0	.0	.3	1.0	.8	1.0	.7	.5	.2	.1	*	*	*	.0	683	1.5	3.2
3	.0	.0	.0	.0	.0	.0	.1	.6	.6	.4	.5	.6	.3	.1	.0	*	*	*	.0	387	.7	2.3
2	.0	.0	.0	.0	.0	.0	.2	1.4	1.3	1.3	1.7	1.3	.5	.1	.1	*	*	*	.0	1078	2.2	5.6
1	.0	.0	.0	.0	.0	.0	.1	1.1	.8	.7	1.6	.7	.3	.1	*	*	*	*	.0	644	1.1	3.7
0	.0	.0	.0	.0	.0	*	1.2	2.2	1.6	1.4	2.1	1.4	.0	.1	*	*	*	*	.0	1358	2.5	8.1
-1	.0	.0	.0	.0	.0	*	1.0	1.2	.5	.8	.7	.6	.2	*	*	*	*	*	.0	582	.9	4.1
-2	.0	.0	.0	.0	.0	*	2.0	1.5	.9	1.1	1.6	.7	.2	*	*	*	*	*	.0	921	1.8	6.4
-3	.0	.0	.0	.0	.0	.2	1.0	.8	.6	.5	.4	.4	.1	*	*	*	*	*	.0	412	.6	3.4
-4	.0	.0	.0	.0	.0	.4	.9	1.5	1.1	.7	.8	.8	.5	.2	.1	*	*	*	.0	870	1.1	5.4
-5	.0	.0	.0	.0	.1	1.3	1.2	1.0	.4	.4	.6	.3	.1	*	*	*	*	*	.0	515	.6	4.9
-6	.0	.0	.0	.0	.1	1.1	.9	.3	.3	.2	.1	.1	*	*	*	*	*	*	.0	346	.3	2.9
-7/-8	.0	.0	.0	.0	.5	2.5	1.4	.9	.5	.3	.4	.2	*	*	*	*	*	*	.0	546	.5	6.4
-9/-10	.0	.0	.0	.0	1.2	1.8	.9	.6	.2	.1	.2	.1	*	*	*	*	*	*	.0	356	.2	4.9
-11/-12	.0	.0	*	.6	2.3	1.6	.7	.2	.2	.1	*	*	*	*	*	*	*	*	.0	371	.3	5.6
-14/-14	.0	.0	.7	1.6	1.0	.7	.2	*	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	238	.1	4.3
-17/-19	.0	.1	.7	.5	.4	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	*	1.8
-20/-22	.0	.6	.5	.3	*	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	.1	1.6
-23/-25	.1	.6	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	*	.8
-26/-30	.2	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	*	.5
TOTAL																				10674		
PCT	.3	1.4	2.0	3.2	5.6	10.9	12.5	13.3	10.6	10.1	13.6	9.3	4.3	1.7	.8	.2	.1	*	*	100.0	17.6	82.4

PERIOD: (OVER-ALL) 1943-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.7	.1	.0	.0	.0	1.0	.2	1.0	.1	.0	.0	.0	1.3
1-2	.1	1.1	1.3	.0	.0	.0	2.5	.1	1.1	.9	.0	.0	.0	2.1
3-4	.0	.5	1.5	.3	.0	.0	2.3	.0	.5	1.1	.2	.0	.0	1.8
5-6	.0	.1	.8	.4	.0	.0	1.3	.0	.1	.8	.2	.0	.0	1.1
7	.0	.1	.5	.3	.0	.0	.8	.0	.1	.6	.5	.0	.0	1.2
8-9	.0	.0	.3	.3	.1	.0	.7	.0	.0	.3	.1	.0	.0	.5
10-11	.0	.0	.2	.1	.0	.0	.6	.0	.0	.1	.3	.1	.0	.4
12	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.2	.0	.0	.3
13-16	.0	.0	.1	.2	.1	.0	.4	.0	.0	.1	.2	.1	.0	.3
17-19	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.5	4.8	2.0	.4	*	9.9	.3	2.9	3.9	1.9	.3	.0	9.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.6	.1	.0	.0	.0	.9	.1	.5	.1	.0	.0	.0	.8
1-2	.1	.7	.7	.0	.0	.0	1.4	.0	.8	.9	.0	.0	.0	1.8
3-4	.0	.3	1.2	.2	.0	.0	1.7	.0	.4	1.2	.3	.0	.0	2.0
5-6	.0	.1	.6	.6	.0	.0	1.3	.0	.2	.9	.6	.0	.0	1.7
7	.0	.0	.5	.6	.0	.0	1.1	.0	.2	.5	.5	.1	.0	1.0
8-9	.0	.0	.2	.4	.1	.0	.6	.0	.0	.1	.3	.0	.0	.4
10-11	.0	.0	.1	.2	.0	.0	.4	.0	.0	.1	.2	.0	.0	.4
12	.0	.0	.0	.1	.1	.0	.3	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.1	.0	.5	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.7	3.4	2.4	.4	*	8.2	.2	1.9	3.9	2.1	.3	*	8.4

PERIOD: (OVER-ALL) 1943-1974

ANNUAL

AREA 0022 ONEKUTAN ISLAND
49.3N 152.5E

TABLE 18 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.7	.1	.0	.0	.0	.9	.3	1.0	.2	.0	.0	.0	1.5
1-2	*	1.1	1.2	.0	.0	.0	2.3	.2	1.5	1.4	.0	.0	.0	3.1
3-4	.0	.6	2.0	.3	.0	.0	3.0	*	.6	2.0	.2	.0	.0	2.9
5-6	.0	.1	1.1	.4	.1	.0	1.7	*	.1	1.7	.5	*	.0	2.3
7	*	.1	.7	.5	.1	.0	1.4	*	.1	.7	.5	*	.0	1.4
8-9	.0	*	.3	.3	*	.0	.7	.0	*	.4	.3	.1	.0	.8
10-11	.0	*	.1	.4	.1	.0	.6	.0	*	.1	.3	*	.0	.4
12	.0	*	.1	.1	.1	.0	.2	.0	*	.1	.1	*	.0	.2
13-16	.0	*	*	*	.1	.0	.1	.0	.0	*	.1	*	.0	.2
17-19	.0	.0	.0	*	.0	.0	*	.0	*	*	.1	*	.0	.2
20-22	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	*	.0	*
23-25	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.6	4.6	2.2	.4	.0	11.0	.5	3.4	6.5	2.1	.3	*	13.0

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.9	.2	.0	.0	.0	1.2	.2	.8	.3	.0	.0	.0	1.2	
1-2	*	1.3	1.2	.0	.0	.0	2.6	*	1.3	1.4	.0	.0	.0	2.7	
3-4	.0	.7	2.7	.5	.0	.0	3.8	.0	.4	2.4	.5	.0	.0	3.3	
5-6	*	.3	2.1	.7	*	.0	3.1	.0	.2	1.9	.8	.1	.0	3.1	
7	*	.1	1.2	1.0	.1	.0	2.5	.0	.1	1.5	1.1	*	.0	2.8	
8-9	.0	*	.4	.5	*	.0	1.0	.0	*	.7	.7	.2	.0	1.6	
10-11	.0	*	.2	.5	.3	.0	1.1	.0	*	.5	.8	.1	.0	1.5	
12	.0	.0	*	.2	.1	.0	.3	*	*	.1	.5	.1	.0	.8	
13-16	.0	.0	.1	.5	.3	.0	1.0	.0	*	.1	.5	.3	.0	.9	
17-19	.0	*	*	.2	*	.0	.4	.0	.0	*	.1	.1	.0	.2	
20-22	.0	.0	*	*	.2	.0	.2	.0	.0	*	*	.1	.0	.2	
23-25	.0	.0	.0	*	*	.0	.1	.0	.0	*	*	.1	.0	*	
26-32	.0	.0	.0	*	.1	.0	.1	.0	.0	.0	.0	*	.0	*	
33-40	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	*	
41-48	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	3.4	8.2	4.3	1.4	*	17.5	.2	2.9	8.9	5.1	1.1	.0	18.2	95.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.8	6.3	1.1	.0	.0	.0	13.3	
1-2	.6	6.9	8.9	.0	.0	.0	18.5	
3-4	*	4.0	14.2	2.5	.0	.0	20.7	
5-6	.1	1.1	9.9	4.2	.4	.0	15.6	
7	.1	.6	6.2	4.9	.4	.0	12.2	
8-9	.0	.2	2.6	3.0	.5	*	6.3	
10-11	.0	.1	1.4	3.0	.8	.0	5.3	
12	*	*	.4	1.4	.5	.0	2.3	
13-16	.0	*	.4	2.0	1.1	.0	3.6	
17-19	.0	*	.1	.6	.5	.1	1.2	
20-22	.0	.0	*	.3	.3	.0	.6	
23-25	.0	.0	.0	*	.1	.0	.2	
26-32	.0	.0	.0	.1	.2	.0	.2	
33-40	.0	.0	.0	.0	*	.0	*	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.6	21.3	45.3	22.0	4.7	.1	100.0	6129

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	7.9	10.5	6.6	4.0	1.2	1.0	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3131	4
6-7	.1	1.2	2.7	4.1	4.4	2.7	2.4	.7	1.2	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	1723	7
8-9	.1	.3	.9	1.6	2.3	1.7	1.8	.7	1.2	.4	.1	*	.1	.0	.0	.0	.0	.0	.0	939	8
10-11	.0	.6	.3	.5	.4	.6	.5	.3	.5	.3	.2	*	*	.0	.0	.0	.0	.0	.0	363	6
12-13	.0	.0	.8	.2	.4	.4	.2	.1	.2	.2	*	.0	.1	.0	.0	.0	.0	.0	.0	223	7
>13	.0	.0	.0	.3	.3	.1	.1	.1	.2	*	.1	.1	*	*	.0	.0	.0	.0	.0	122	10
INDET	4.3	3.9	5.6	4.5	3.6	1.7	1.6	.9	1.2	.4	.1	.1	*	*	.0	.0	.0	.0	.0	2613	4
TOTAL																				9114	5
PCT	5.1	13.9	20.9	17.8	15.4	8.5	7.7	3.1	4.6	1.8	.8	.3	.2	*	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1870-1974

AREA 0022 ONEKOTAN ISLAND
49.3N 152.5E

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	5	.*
63/64	.0	.0	.0	.0	.0	.0	.2	1.0	.9	.2	.0	.0	32	.3
61/62	.0	.0	.0	.0	.0	.0	.3	1.5	1.3	.1	.0	.0	47	.4
59/60	.0	.0	.0	.0	.0	.0	.1	.8	2.1	.4	.0	.0	78	.7
57/58	.0	.0	.0	.0	.0	.1	.5	3.9	4.6	1.3	.0	.0	140	1.2
55/56	.0	.0	.0	.0	.0	.3	2.3	7.0	7.0	2.5	.0	.0	264	2.3
53/54	.0	.0	.0	.0	.1	.6	4.4	12.7	11.7	2.4	.4	.0	450	3.9
51/52	.0	.0	.0	.0	.1	.6	6.2	14.6	13.4	5.2	.1	.0	567	4.9
49/50	.0	.0	.0	.0	.4	2.4	14.5	20.7	16.6	11.5	1.3	.0	956	8.2
47/48	.0	.0	.0	.7	.2	3.6	15.4	12.3	17.9	13.0	2.6	1.2	853	7.3
45/46	.0	.3	.5	.7	1.4	11.0	22.7	17.8	15.2	28.1	9.6	1.0	1383	11.4
43/44	1.0	.3	.5	.9	2.2	15.3	12.7	3.9	5.5	19.2	14.3	3.1	990	8.5
41/42	7.1	1.6	1.8	1.4	5.2	16.6	7.8	2.8	4.7	8.3	19.8	7.3	901	7.7
39/40	7.4	1.9	3.6	5.2	11.1	21.0	7.4	2.7	2.8	5.1	24.0	12.1	1099	9.4
37/38	13.6	5.8	7.4	6.6	17.0	14.1	4.4	1.8	1.4	1.5	13.3	26.6	1012	8.7
35/36	26.5	14.3	10.5	21.4	29.9	10.0	.3	.1	.0	1.2	10.8	32.6	1180	10.1
33/34	31.5	36.7	28.2	34.5	24.6	3.6	.0	.0	.0	.0	2.3	13.2	1016	8.7
31/32	15.3	27.9	30.3	21.8	7.2	.7	.0	.0	.0	.0	1.4	2.5	503	4.3
29/30	2.6	10.7	16.4	5.7	.6	.0	.0	.0	.0	.0	.0	.5	145	1.2
27/28	.0	.3	.8	1.1	.0	.0	.0	.0	.0	.0	.0	.0	9	.1
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	419	308	390	440	1423	1741	1737	1524	1236	1116	697	605	11638	100.0
MEAN	34.9	33.5	33.3	34.3	36.2	40.8	46.2	49.9	49.5	45.9	40.3	37.0	40.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MC	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1007	1007	1005	1010	1008	1008	1009	1011	1007	448
FEB	1004	1004	1003	1006	1005	1011	1007	1007	1005	350
MAR	1008	1010	1008	1005	1009	1008	1007	1006	1008	436
APR	1012	1009	1012	1011	1013	1009	1012	1010	1012	630
MAY	1013	1011	1012	1010	1013	1011	1013	1012	1012	1592
JUN	1012	1011	1013	1012	1013	1011	1012	1011	1012	1851
JUL	1011	1009	1011	1009	1012	1011	1011	1010	1011	1827
AUG	1011	1011	1011	1011	1011	1010	1011	1009	1011	1578
SEP	1015	1013	1014	1012	1015	1011	1014	1012	1014	1283
OCT	1013	1014	1012	1015	1013	1013	1013	1012	1013	1181
NOV	1008	1017	1009	1026	1010	1002	1011	1009	1009	723
DEC	1007	1005	1006	1012	1009	998	1008	1007	1007	639
ANN	1010	1010	1010	1012	1011	1009	1011	1010	1011	12538
OBS	2908	546	2735	487	2817	430	2186	429		

PERCENTILES

MC	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	978	980	989	1000	1009	1016	1021	1024	1026
FEB	979	980	989	999	1005	1011	1019	1024	1025
MAR	979	980	989	1003	1009	1015	1021	1024	1027
APR	980	984	992	1005	1012	1020	1026	1029	1031
MAY	982	986	996	1007	1013	1019	1026	1030	1032
JUN	986	997	1002	1008	1012	1017	1022	1025	1031
JUL	989	992	999	1007	1011	1015	1022	1025	1028
AUG	985	993	999	1006	1011	1015	1021	1025	1028
SEP	982	985	999	1009	1015	1020	1027	1029	1031
OCT	979	984	997	1007	1013	1020	1027	1030	1033
NOV	977	980	988	1002	1010	1017	1026	1030	1033
DEC	975	980	986	999	1007	1018	1026	1029	1032

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1934-1974

JANUARY

AREA 0023 ONEKOT 48.4N 154.4E
48.4N 154.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	FRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.9	.0	19.2	.9	.0	21.0	.9	.0	2.4	1.2	.0	.9	73.7
NE	2.8	.0	1.1	.0	27.5	.0	.0	29.9	4.2	.0	5.6	2.8	.0	2.8	54.6
E	8.0	.0	3.4	.0	17.2	2.3	.0	31.0	4.6	.0	.0	.0	.0	.0	44.4
SE	5.9	.0	.0	.0	27.7	.0	.0	33.7	5.0	.0	4.0	.0	.0	.0	57.4
S	.0	.0	4.5	.0	19.1	.0	.0	23.6	16.9	.0	.0	.0	.0	.0	59.6
SW	.8	.0	.0	.0	21.2	.0	.0	22.0	12.9	.0	.0	.0	.0	3.0	62.1
W	1.6	.0	.0	.7	30.2	.0	2.3	33.8	13.6	.9	.0	.0	.0	.0	51.7
NW	.0	.0	.0	.2	25.2	1.1	.4	26.4	11.6	.0	.9	.0	.9	.2	59.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	10.0	.0	.0	10.0	.0	.0	.0	.0	10.0	.0	80.0
TOT PCT	1.8	.0	.8	.2	24.2	.6	.6	27.7	8.4	.2	1.6	.6	.4	.8	60.4
TOT OBS:	512														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	FRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG	DUST PCPN	NO SIG WEA
0000	1.3	.0	1.3	.0	23.5	.7	.0	26.1	7.8	.0	2.0	.7	.0	.0	.0	63.4
0600	.0	.0	.6	.0	27.1	.6	.6	29.0	8.4	.6	1.3	1.3	.6	1.3	57.4	
1200	2.9	.0	.0	.0	22.6	.0	1.5	27.0	8.0	.0	2.2	.0	.7	1.5	60.6	
1800	2.3	.0	1.1	1.1	19.5	1.1	.0	25.3	9.2	.0	.0	.0	.0	.0	65.5	
TOT PCT	1.7	.0	.8	.2	23.7	.6	.6	27.1	8.3	.2	1.5	.6	.4	.8	61.3	
TOT OBS:	532															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.4	2.8	6.8	7.1	.9	.0		18.0	19.6	14.9	21.4	18.5	42.9	17.6	11.1	14.5	9.4
NE	.1	3.4	4.7	5.2	1.5	.0		14.9	20.2	15.9	10.7	20.4	17.9	14.2	27.8	5.0	3.1
E	.0	2.0	2.9	1.7	.7	.3		7.5	19.9	11.5	10.7	7.3	3.6	6.0	.0	5.9	.0
SE	.0	1.9	.7	.9	.5	.3		4.2	20.0	2.1	10.7	3.8	1.8	3.7	.0	8.6	6.3
S	.0	1.3	1.3	1.1	.4	.0		4.0	17.6	2.6	3.6	6.2	5.4	1.7	.0	5.0	18.6
SW	.0	.7	2.3	1.5	.9	.0		5.3	21.7	8.1	7.1	4.3	7.1	2.6	5.6	4.5	12.5
W	.0	1.7	10.4	8.9	2.7	.0		23.6	22.7	20.3	30.4	21.0	10.7	25.6	44.4	27.7	31.3
NW	.0	1.4	7.0	8.5	3.4	.0		20.4	23.9	20.6	5.4	17.5	10.7	25.3	11.1	25.0	18.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0	2.1	.0	1.1	.0	3.4	.0	3.6	.0
TOT OBS	10	57	136	131	41	2	377		20.9	96	14	93	14	88	9	55	8
TOT PCT	2.7	15.1	36.1	34.7	10.9	.5		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	1.9	4.5	8.8	2.9	.0		18.0	19.6	17.5	21.7	17.0	13.9	
NE	1.3	4.6	5.8	2.8	.5		14.9	20.2	15.2	20.1	15.5	4.8	
E	.5	3.1	2.3	1.1	.5		7.5	19.9	11.4	6.8	5.4	3.2	
SE	.1	2.1	1.0	.5	.5		4.2	20.0	3.2	3.5	3.4	8.3	
S	1.1	1.3	.7	.9	.0		4.0	17.6	2.7	6.1	1.5	6.7	
SW	.1	2.3	1.2	1.5	.3		5.3	21.7	8.0	4.7	2.8	5.6	
W	.0	5.4	11.3	6.4	.5		23.6	22.7	21.6	19.6	27.3	28.2	
NW	.6	3.6	9.3	6.3	.6		20.4	23.9	18.6	16.6	24.0	24.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.1						2.1	.0	1.8	.9	3.1	3.2	
TOT OBS	29	101	152	84	11	377		20.9	110	107	97	63	
TOT PCT	7.7	26.8	40.3	22.3	2.9		100.0		100.0	100.0	100.0	100.0	

JANUARY

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1935-1974

AREA 0023 ONEKOTAN ISLAND SE
48.4N 154.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+*	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.8	.0	14.5	39.1	32.7	10.9	.9	21.6	100.0	110
06009	.9	.0	12.1	35.5	38.3	12.1	.9	22.1	100.0	107
12015	3.1	1.0	16.5	30.9	38.1	10.3	.0	20.2	100.0	97
18021	3.2	1.6	19.0	39.7	27.0	9.5	.0	18.9	100.0	63
TOT	8	2	57	136	131	41	2	20.9		377
PCT	2.1	.5	15.1	36.1	34.7	10.9	.5	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCH	TOTAL OBS	MEAN CLOUD COVER
N	.8	2.6	6.3	6.4		6.2
NE	.5	1.3	3.1	8.6		6.8
E	.6	.6	2.8	4.0		6.4
SE	.4	.6	1.0	2.7		6.5
S	.4	.6	.7	2.6		6.6
SW	.8	.0	2.8	2.8		6.3
W	.0	2.5	13.0	6.5		6.3
NW	1.2	2.8	10.2	9.0		6.3
VAR	.0	.0	.0	.0		.0
CALM	.2	.0	.9	.7		6.0
TOT OBS	21	47	174	184	426	6.4
TOT PCT	4.9	11.0	40.8	43.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.2	.0	.6	2.9	3.3	3.1	.4	.0	.0	.2	4.5	
NE	1.2	.0	2.3	1.6	2.0	3.2	1.2	.0	.0	.0	2.1	
E	1.1	.0	.4	1.1	1.8	1.1	.0	.2	.2	.0	2.4	
SE	.9	.0	.5	.0	1.3	.3	.2	.1	.0	.0	1.2	
S	.9	.0	.2	.5	1.2	.6	.0	.0	.0	.0	1.0	
SW	.5	.0	.3	.3	2.2	2.0	.2	.0	.0	.0	.3	
W	1.4	.0	.4	2.7	7.6	5.3	.6	.2	.0	.0	3.8	
NW	1.9	.2	.5	2.7	6.6	4.7	1.4	.2	.0	.2	4.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.2	
TOT OBS	40	1	22	50	111	91	17	3	1	2	68	426
TOT PCT	9.4	.2	5.2	11.7	26.1	21.4	4.0	.7	.2	.5	20.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.7	.7	.7	.9	.9	.9	.9	.9
>5000	.9	1.1	1.4	1.6	1.6	1.6	1.6	1.6
>3500	3.2	4.4	5.3	5.7	6.0	6.0	6.0	6.0
>2000	11.7	22.5	25.7	26.4	27.1	27.3	27.8	27.8
>1000	22.0	39.9	47.0	48.9	51.6	52.3	53.9	53.9
>600	23.4	44.7	55.5	58.5	62.2	63.1	65.1	65.1
>300	24.1	45.9	58.5	61.9	66.1	67.9	70.2	70.2
>150	24.1	45.9	58.7	62.2	66.3	68.1	70.4	70.4
>0	24.1	47.0	61.7	66.5	71.6	75.5	79.6	79.6
TOTAL	105	205	269	290	312	329	347	347

TOTAL NUMBER OF OBS: 436

PCT FREQ NH <5/8: 20.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCH	TOTAL OBS
	1.2	1.5	4.8	6.2	5.8	7.9	17.5	12.3	35.1	481

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1935-1974

JANUARY

AREA 0023 ONEKOTAN ISLAND SE
48.4N 154.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL Obs
<1/2	PCP	.6	.5	1.4	1.0	.4	.4	1.7	1.2	.0	.0	7.2	
	NN PCP	.2	.4	.0	.2	.0	.2	.1	.4	.0	.0	1.6	
	TOT %	.8	.9	1.4	1.2	.4	.6	1.8	1.7	.0	.0	8.8	
1/2<1	PCP	.3	.7	.3	.2	.0	.0	.5	1.1	.0	.0	3.1	
	NN PCP	.1	.4	.0	.2	.0	.0	.2	.2	.0	.0	1.2	
	TOT %	.4	1.1	.3	.4	.0	.0	.7	1.3	.0	.0	4.3	
1<2	PCP	.4	.6	.6	.4	.3	.3	1.2	.7	.0	.2	4.7	
	NN PCP	.2	.3	.3	.1	.3	.3	.6	.6	.0	.0	1.9	
	TOT %	.6	.9	.9	.4	.5	.6	1.5	1.3	.0	.2	6.6	
2<5	PCP	.8	1.8	.0	.0	.2	.7	1.2	1.9	.0	.0	6.6	
	NN PCP	.8	1.2	.8	.4	.3	.5	2.3	2.4	.0	.4	9.1	
	TOT %	1.6	3.1	.8	.4	.5	1.2	3.5	4.3	.0	.4	15.8	
5<10	PCP	1.0	.5	.3	.2	.0	.0	1.8	.8	.0	.0	4.7	
	NN PCP	4.3	1.8	2.1	1.2	1.3	1.2	6.2	6.8	.0	.4	29.3	
	TOT %	5.3	2.4	2.4	1.2	1.5	1.2	7.9	7.6	.0	.4	30.0	
10+	PCP	.5	.0	.0	.0	.0	.1	1.0	.3	.0	.0	1.9	
	NN PCP	7.2	5.8	2.6	1.2	1.5	2.9	5.1	5.5	.0	1.0	32.7	
	TOT %	7.7	5.8	2.6	1.2	1.5	3.0	6.1	5.8	.0	1.0	34.6	
TOT OBS													514
TOT PCT		16.4	13.8	8.5	4.9	4.5	6.5	21.5	22.0	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.3	.3	.0	.0	.0	.4	.4	.0		1.4	
	22+	.3	.9	.9	1.1	.4	.0	1.8	.6	.0		6.0	
	TOT %	.3	1.2	1.2	1.1	.4	.0	2.2	1.0	.0	.0	7.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.3	.0	.0	.0	.2	.3	.0		.8	
	22+	.2	.7	.2	.0	.0	.0	.3	.0	.0		1.4	
	TOT %	.2	.7	.5	.0	.0	.0	.5	.3	.0	.0	2.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.3	.0	.0	.0	.9	.7	.0		1.9	
	22+	.3	.5	.3	.3	.3	.0	.0	.3	.0		1.9	
	TOT %	.5	.5	.5	.3	.3	.0	.9	.9	.0	.3	4.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.3	.8	.3	.4	.4	.3	.7	.3	.0		3.5	
	11-21	.5	.8	.0	.3	.2	.0	.8	.3	.0		3.0	
	22+	1.0	1.9	.0	.0	.0	1.1	1.5	3.2	.0		8.7	
	TOT %	1.8	3.5	.3	.7	.6	1.4	3.0	3.9	.0	.3	15.4	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	
	4-10	.3	.3	.5	.5	.3	.0	.5	.5	.0		3.0	
	11-21	2.2	.7	1.4	.3	.4	.5	4.1	2.4	.0		11.9	
	22+	4.1	1.5	.5	.0	.3	.5	3.8	4.7	.0		15.4	
	TOT %	6.6	2.4	2.5	.8	.9	1.0	8.5	7.6	.0	.5	30.9	
10+	0-3	.4	.1	.0	.0	.0	.0	.0	.0	.0	1.1	1.6	
	4-10	2.0	2.4	1.2	1.0	.7	.4	.4	.6	.0		8.7	
	11-21	4.3	3.0	.7	.1	.7	1.8	3.6	2.8	.0		17.1	
	22+	2.3	1.3	.3	.3	.5	.8	3.7	3.0	.0		12.5	
	TOT %	9.0	6.8	2.5	1.4	1.9	3.0	7.7	6.4	.0	1.1	39.8	
TOT OBS													369
TOT PCT		18.4	15.2	7.5	4.3	4.1	5.4	22.9	20.1	.0	2.2	100.0	

JANUARY

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1935-1974AREA 0023 ONEKOTAN ISLAND SE
48.4N 154.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL ANY HGT	NH < 5/8 ANY HGT	TOTAL OBS
00003	6.7	.7	9.6	8.9	23.0	25.2	5.2	1.5	.7	.0	81.5	18.5	135
06009	5.2	.0	3.7	16.4	26.9	23.1	5.2	.0	.0	.7	81.3	18.7	134
12015	13.9	.0	2.8	11.1	25.0	19.4	3.7	.0	.9	.9	77.8	22.2	108
18021	13.0	.0	1.4	7.2	29.0	17.4	1.4	1.4	.0	.0	71.0	29.0	69
TOT	40	1	22	51	114	96	19	3	2	2	352	94	446
PCT	9.0	.2	4.9	11.4	25.6	22.0	4.3	.7	.4	.4	78.9	21.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	7.6	6.3	4.4	16.5	21.5	43.7	158
06009	7.0	2.5	8.3	17.8	26.8	37.6	157
12015	10.0	2.9	7.1	15.0	41.4	23.6	140
18021	9.9	5.5	4.4	12.1	31.9	36.3	91
TOT	45	23	34	86	163	194	546
PCT	8.4	4.2	6.2	15.8	29.9	35.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	6.7	23.9	41.0	41.8	17.2	134
06009	5.4	13.8	41.5	40.8	17.7	130
12015	14.3	22.9	41.0	41.0	18.1	105
18021	13.4	26.9	41.8	32.8	25.4	67
TOT	40	92	180	174	82	436
PCT	9.2	21.1	41.3	39.9	18.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/44	.0	.0	.0	.0	.0	.0	.0	.8	1	.8
40/44	.0	.0	.8	.8	.0	.0	1.6	1.6	6	4.8
35/39	.0	.0	.8	.8	3.2	2.4	7.1	7.1	26	20.6
30/34	.0	.0	.8	2.4	.8	3.2	7.1	19.0	42	33.3
25/29	.0	.0	.8	.8	.8	4.0	9.5	12.7	35	27.8
20/24	.0	.0	.0	.0	2.4	1.6	3.2	4.8	15	11.9
15/19	.0	.0	.0	.0	.0	.0	.0	.0	1	.8
TOTAL	0	0	2	6	9	14	36	59	126	100.0
PCT	.0	.0	1.6	4.8	7.1	11.1	28.6	46.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
45/44	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0
40/44	.0	1.6	1.6	.0	.8	.0	.6	.2	.0	.0
35/39	2.4	2.4	3.0	4.8	1.8	1.6	3.0	1.8	.0	.0
30/34	6.5	8.3	5.2	3.4	3.2	.8	4.2	1.0	.0	.8
25/29	3.6	1.2	1.2	4.2	.0	.2	7.7	9.7	.0	.0
20/24	.8	.0	.0	.0	.8	.0	6.3	4.0	.0	.0
15/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	13.3	13.5	10.9	12.3	6.5	2.6	22.6	17.5	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	43	42	37	28	19	17	14	28.2	154
06009	45	43	37	28	18	13	12	27.9	154
12015	41	41	37	28	18	14	14	27.4	154
18021	38	37	36	25	16	11	11	25.3	86
TOT	45	41	37	27	17	14	11	27.2	533

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.6	8.3	19.4	44.4	22.2	82	36
06009	.0	2.3	9.3	4.7	25.6	58.1	89	43
12015	.0	5.7	0.5	12.3	25.6	45.2	59	71
18021	.0	12.5	.0	6.3	6.3	75.0	91	16
TOT	0	8	9	14	36	59	86	126

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1933-1974

JANUARY

TABLE 17

AREA 0023 ONEKOTAN ISLAND SE
48.4N 154.9E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	04 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	W FOG	WD FOG
6	.0	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
5	.0	.0	.0	.0	.0	.0	.0	.4	.2	3	.0	.6
4	.0	.0	.0	.0	.0	.0	.0	.4	.0	2	.0	.4
3	.0	.0	.0	.0	.0	.0	.0	.8	.2	5	.0	1.1
2	.0	.0	.0	.0	.0	.0	1.3	1.1	.0	11	.0	2.3
1	.0	.0	.0	.0	.0	.0	1.9	1.3	.0	15	.0	3.2
0	.0	.0	.0	.0	.4	.8	3.2	.4	.0	23	.2	4.6
-1	.0	.0	.0	.0	.0	1.7	2.7	.0	.0	21	.0	4.4
-2	.0	.0	.0	.0	.8	2.9	1.7	.0	.0	26	.0	5.5
-3	.0	.0	.0	.0	.2	1.5	1.1	.0	.0	13	.0	2.7
-4	.0	.0	.0	.0	.8	2.7	1.5	.0	.0	24	.0	5.1
-5	.0	.0	.0	.0	2.9	2.9	.8	.2	.0	33	.2	6.7
-6	.0	.0	.0	.0	3.2	2.3	.4	.0	.0	28	.6	3.3
-7/-8	.0	.0	.0	1.3	6.5	1.9	.0	.0	.0	46	.2	9.5
-9/-10	.0	.0	.2	2.7	7.8	1.7	.0	.0	.0	59	.2	12.2
-11/-13	.0	.0	1.5	7.2	5.7	.2	.0	.0	.0	69	.0	14.5
-14/-16	.0	.2	3.4	6.0	2.1	.0	.0	.0	.0	46	.0	9.7
-17/-19	.0	1.7	1.5	2.3	.4	.0	.0	.0	.0	29	.0	6.1
-20/-22	.0	1.5	1.5	.2	.0	.0	.0	.0	.0	15	.0	3.2
-23/-25	.0	.6	.4	.0	.0	.0	.0	.0	.0	5	.0	1.1
-26/-30	.2	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	1	19	40	85	147	89	69	23	2	475	7	468
PCT	.2	4.0	8.4	17.9	30.9	18.7	14.5	4.8	.4	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.7	.4	.0	.0	.0	1.1	.0	.0	.4	.0	.0	.0	.4
3-4	.0	.4	2.5	1.4	.0	.0	4.3	.0	.7	2.6	1.3	.0	.0	4.6
5-6	.0	.0	2.6	.9	.0	.0	3.5	.0	.0	.6	.8	.0	.0	1.4
7	.0	.0	.9	1.7	.0	.0	2.6	.0	.0	.1	2.3	.0	.0	2.3
8-9	.0	.0	1.4	1.6	.0	.0	3.0	.0	.0	.8	.9	.0	.0	1.7
10-11	.0	.0	.0	1.6	.0	.0	1.6	.0	.0	.0	.5	.5	.0	1.0
12	.0	.0	.3	.6	.0	.0	.9	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.3	.3	.0	.5	.0	.0	.4	.4	.0	.0	1.1
17-19	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.1	1.2	.0	1.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	8.0	8.2	.8	.0	18.5	.0	1.1	4.9	6.6	2.0	.0	14.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.0	.0	.0	.0	1.8	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.3	.4	.0	.0	.0	.6	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.0	.4	.0	.0	.0	.4	.0	.7	.5	.0	.0	.0	1.2
5-6	.0	.4	.9	.4	.0	.0	1.6	.0	.0	.1	.4	.0	.0	.5
7	.0	.0	1.0	.0	.0	.0	1.0	.0	.4	.2	.0	.0	.0	.5
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.4	.6	.3	.4	1.6	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.5	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	3.0	1.9	.9	.4	8.6	.0	2.3	.7	.8	.5	.0	4.4

PERIOD: (OVER-ALL) 1963-1974

JANUARY

TABLE 16 (CONT)

AREA 0023 ONEKOTAN ISLAND SE
48.4N 154.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.6	.3	.0	.0	.0	.9	.0	.1	.5	.0	.0	.0	.5
3-4	.0	.4	.3	.0	.0	.0	.6	.0	.0	.0	.4	.0	.0	.4
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	.5	.4	.0	.0	.9
7	.0	.0	.3	.7	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.7	.4	.0	1.4
12	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	1.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	1.2	1.1	.3	.0	3.6	.0	.8	1.4	1.4	1.1	.0	4.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	.4	1.4	.0	.0	.0	1.7	.0	.0	.1	.0	.0	.0	.1	
3-4	.0	.6	1.4	.3	.0	.0	2.3	.0	.5	2.2	1.0	.0	.0	3.6	
5-6	.0	.0	2.6	2.0	.3	.0	4.9	.0	.0	2.3	1.0	.5	.0	3.8	
7	.0	.0	1.3	2.9	.4	.0	4.5	.0	.0	1.0	2.9	.7	.0	4.6	
8-9	.0	.0	1.4	2.0	.4	.0	3.8	.0	.0	.4	1.6	.0	.0	2.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.2	.4	.0	1.9	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.2	.4	.0	2.0	
13-16	.0	.0	.0	1.4	.7	.0	2.1	.0	.0	.0	.2	.5	.0	.6	
17-19	.0	.0	.6	1.3	.0	.0	1.9	.0	.0	.1	.5	.5	.0	1.1	
20-22	.0	.0	.0	.3	.4	.0	.6	.0	.0	.0	.1	.4	.0	.5	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.0	8.7	10.0	2.1	.0	21.8	.0	.8	6.9	9.7	3.5	.0	20.8	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.9	3.6	.0	.0	.0	.0	6.5	
1-2	.0	3.2	3.2	.0	.0	.0	6.5	
3-4	.0	3.2	9.7	4.3	.0	.0	17.3	
5-6	.0	.4	10.1	5.8	.7	.0	17.0	
7	.0	.4	4.7	10.5	1.1	.0	16.6	
8-9	.0	.0	4.0	6.5	.4	.0	10.8	
10-11	.0	.4	.7	5.4	1.4	.4	8.2	
12	.0	.0	.7	2.5	1.1	.0	4.3	
13-16	.0	.0	.7	2.2	2.5	.0	5.4	
17-19	.0	.0	.7	2.2	2.2	.0	5.1	
20-22	.0	.0	.0	.4	1.1	.0	1.4	
23-25	.0	.0	.0	.0	.7	.0	.7	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.9	11.2	34.7	39.7	11.2	.4	100.0	277

PERIOD: (OVER-ALL) 1963-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	2.2	6.9	4.5	5.8	1.3	1.1	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	5
6-7	.0	.7	1.6	3.3	6.5	3.6	3.6	2.0	.7	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	102	8
8-9	.0	.0	.2	2.2	3.6	3.6	2.2	1.8	5.8	2.0	.7	.2	.2	.0	.0	.0	.0	.0	.0	101	11
10-11	.0	.2	.7	.7	1.3	1.1	.7	1.6	2.0	1.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	46	11
12-13	.0	.0	.4	1.1	.2	.2	.4	.7	.9	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	22	11
14-15	.0	.0	.0	.9	.2	.0	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	8
16-17	1.3	1.1	2.0	3.8	2.7	1.3	.7	.7	.2	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	65	6
TOTAL	7	19	53	74	91	50	41	34	44	21	10	3	1	0	0	0	0	0	0	448	8
PCT	1.6	4.2	11.8	16.5	20.3	11.2	9.2	7.6	9.8	4.7	2.2	.7	.2	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1899-1974

TABLE 1

AREA 0023 ONEKOTAN ISLAND SE
48.3N 154.9E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE															OTHER WEATHER PHENOMENA						
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA						
N	3.4	.0	.0	.0	22.1	.0	.0	25.5	8.9	.0	.0	.0	.0	.0	65.5						
NE	.0	.0	.0	.0	24.3	.0	.0	24.3	11.8	.0	.0	.0	.0	.0	63.9						
E	.0	3.3	2.5	.0	28.7	.0	.0	34.4	9.8	.0	3.3	.0	2.5	.0	50.0						
SE	.0	.0	1.2	.0	23.3	.0	.0	24.4	4.7	.0	.0	.0	1.2	.0	69.8						
S	.0	.0	.0	.0	7.5	.0	.0	7.5	17.5	.0	.0	.0	.0	.0	75.0						
SW	6.4	.0	.0	.0	17.6	.0	.0	17.6	8.8	.0	3.2	.0	.0	.0	70.4						
W	1.0	.9	.0	.0	36.1	.5	.0	38.6	12.6	.0	.4	.0	.0	1.0	47.4						
NW	1.1	.1	1.1	.0	30.0	.6	.0	31.8	14.0	.0	.1	.0	.0	1.1	52.9						
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0						
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0						
TOT PCT	1.4	.5	.5	.0	29.3	.4	.0	31.4	12.0	.0	.5	.0	.2	.7	55.2						
TOT OBS:	560																				

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.5	.5	.0	.0	31.7	.5	.0	32.8	13.7	.0	.5	.0	.0	.5	52.5
0600	1.2	.6	1.2	.0	30.7	.0	.0	32.5	9.2	.0	.0	.0	.6	1.8	55.8
1200	1.6	.8	.8	.0	28.8	.8	.0	32.8	9.6	.0	.8	.0	.0	.0	56.8
1800	2.6	.0	.0	.0	25.0	.0	.0	26.7	16.4	.0	.9	.0	.0	.0	56.0
TOT PCT	1.4	.5	.5	.0	29.5	.3	.0	31.5	12.1	.0	.5	.0	.2	.7	55.0
TOT OBS:	587														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15
N	.0	2.5	4.3	3.9	.8	.0		11.6	19.4		13.2	4.2	12.0	7.7	12.9	8.3
NE	.0	2.4	2.9	1.1	.5	.0		6.9	17.1		8.2	6.9	7.9	.0	8.9	.0
E	.0	.5	2.6	1.5	1.8	.0		6.5	22.9		9.5	15.3	7.0	7.7	6.0	.0
SE	.0	2.1	.9	.5	.1	.0		3.6	12.4		7.2	1.4	5.0	.0	1.7	.0
S	.0	.2	.4	.7	.0	.0		1.2	19.2		1.4	15.3	1.0	.0	.0	.0
SW	.2	1.1	4.1	.9	.5	.0		6.8	17.2		5.3	12.5	4.8	23.1	6.0	20.8
W	.0	2.5	12.0	14.5	3.9	.0		32.9	23.5		35.8	23.6	31.0	21.2	37.4	45.8
NW	.2	2.7	9.9	13.2	4.1	.0		30.2	23.4		28.4	20.8	31.3	40.4	25.9	25.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0
CALM	.2							.2	.0		.0	.0	.0	.0	1.1	.0
TOT OBS	3	59	158	154	49	0	423		21.6		104	18	104	13	87	6
TOT PCT	.7	13.9	37.4	36.4	11.6	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+					00	03	06	12	18
N	.7	3.8	5.0	2.2	.0		11.6	19.4		11.9	11.5	12.6	10.4	
NE	.8	3.0	1.8	1.4	.0		6.9	17.1		8.0	7.1	8.3	3.8	
E	.2	2.1	2.4	1.6	.2		6.5	22.9		7.0	7.1	5.6	6.0	
SE	.7	2.1	.8	.1	.0		3.6	12.4		2.0	4.5	1.6	6.6	
S	.0	.5	.7	.0	.0		1.2	19.2		3.5	.9	.0	.0	
SW	.5	2.5	2.9	.9	.0		6.8	17.2		6.4	6.8	7.0	7.1	
W	.2	6.4	16.1	9.8	.4		32.9	23.5		34.0	29.9	37.9	29.9	
NW	1.2	6.4	12.0	9.8	.8		30.2	23.4		27.3	32.3	25.8	36.0	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	.2						.2	.0		.0	.0	1.1	.0	
TOT OBS	19	113	176	109	6	423		21.6		122	117	93	91	
TOT PCT	4.5	26.7	41.6	25.8	1.4		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1954-1974
(OVER-ALL) 1899-1974

FEBRUARY

AREA 0023 ONEKOTAN ISLAND SE
48.3N 154.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.0	.0	10.7	37.7	39.3	11.5	.0	22.1	100.0	122
06009	.0	.9	13.7	28.2	47.0	10.3	.0	22.5	100.0	117
12015	1.1	.0	16.1	41.9	28.0	12.9	.0	20.8	100.0	93
18021	.0	.0	16.5	44.0	27.5	12.1	.0	20.6	100.0	91
TOT	1	2	59	158	154	49	0	21.6		423
PCT	.2	.5	13.9	37.4	36.4	11.6	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.2	4.9	3.6		6.2
NE	.4	1.0	3.0	2.0		6.1
E	.0	.6	.8	3.9		7.2
SE	.4	.6	.9	.8		5.4
S	.0	.2	.2	1.0		7.1
SW	.6	.7	2.1	1.7		5.8
W	2.0	2.1	17.6	13.8		6.4
NW	1.0	3.1	14.5	13.9		6.6
VAR	.0	.0	.0	.0		.0
CALM	.2	.2	.0	.0		1.5
TOT OBS	75	44	200	185	454	6.4
TOT PCT	5.5	9.7	44.1	40.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.3	.0	.4	1.2	2.3	3.4	.4	.0	.0	.2	2.4	
NE	.3	.0	.1	.6	1.5	1.3	.4	.0	.2	.0	2.1	
E	1.0	.0	.0	.2	1.4	1.5	.2	.0	.2	.0	.7	
SE	.1	.0	.0	.0	.6	.7	.0	.2	.0	.0	1.3	
S	.0	.0	.0	.0	.4	.6	.0	.0	.0	.0	.4	
SW	.5	.0	.2	.2	1.0	.6	.4	.1	.0	.0	2.0	
W	4.0	.0	.8	2.9	10.2	8.1	2.5	.2	.2	.0	6.7	
NW	4.1	.0	1.0	4.1	8.4	7.0	1.5	.0	.0	.8	5.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	47	0	11	41	117	105	25	2	3	3	100	454
TOT PCT	10.4	.0	2.4	9.0	25.8	23.1	5.5	.4	.7	.7	22.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.4	.4	1.1	1.1	1.1	1.1	1.1	1.1
>5000	.4	.9	1.5	1.5	1.5	1.5	1.5	1.5
>3500	1.7	4.8	6.3	6.5	6.5	6.7	6.9	6.9
>2000	8.0	19.9	24.7	27.5	29.7	30.3	30.7	30.7
>1000	11.5	31.2	42.4	48.9	52.6	54.3	56.5	56.5
>600	13.2	35.7	49.8	57.1	61.0	63.0	65.2	65.6
>300	13.2	35.9	50.6	58.9	63.0	65.2	67.5	68.0
>150	13.2	35.9	50.6	58.9	63.0	65.2	67.5	68.0
>0	13.2	36.1	53.7	64.3	69.5	74.0	77.9	78.4
TOTAL	61	167	248	297	321	342	360	362

TOTAL NUMBER OF OBS: 452

PCT FREQ NH <5/8: 21.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
2.3	1.1	4.2	5.7	6.6	8.3	17.6	15.2	29.9	9.1	528

FEBRUARY

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1899-1974AREA 0023 ONEKOTAN ISLAND SE
48.3N 154.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	.4	.5	.4	.0	.2	2.8	2.9	.0	.0	7.7	
	NO PCP	.0	.0	.4	.0	.7	.2	.1	1.1	.0	.0	2.0	
	TOT %	.4	.4	.9	.4	.2	.4	3.0	4.0	.0	.0	9.6	
1/2<1	PCP	.1	.*	.3	.0	.0	.*	2.0	1.0	.0	.0	3.6	
	NO PCP	.0	.2	.2	.2	.0	.0	.0	.2	.0	.0	.7	
	TOT %	.1	.2	.5	.2	.0	.*	2.0	1.2	.0	.0	4.3	
1<2	PCP	1.0	.2	.5	.4	.1	.*	3.8	3.0	.0	.0	9.1	
	NO PCP	.0	.0	.0	.0	.0	.2	1.2	.8	.0	.0	2.1	
	TOT %	1.0	.2	.5	.4	.1	.2	5.0	3.7	.0	.0	11.2	
2<5	PCP	1.1	.5	.5	.0	.0	.5	3.8	2.6	.0	.0	9.1	
	NO PCP	.8	.1	.6	.*	.4	.*	2.1	3.4	.0	.2	7.7	
	TOT %	1.9	.6	1.2	.*	.4	.6	5.9	6.0	.0	.2	16.7	
5<10	PCP	.2	.2	.0	.0	.0	.7	.8	1.3	.0	.0	2.7	
	NO PCP	3.0	1.9	1.1	.7	1.0	2.0	8.7	9.1	.0	.0	27.4	
	TOT %	3.2	2.0	1.1	.7	1.0	2.7	9.5	10.4	.0	.0	30.1	
10+	PCP	.0	.2	.0	.0	.0	.0	.1	.*	.0	.0	.4	
	NO PCP	4.0	2.7	.9	2.0	.1	2.7	8.5	6.9	.0	.4	27.8	
	TOT %	4.0	2.9	.9	2.0	.1	2.7	8.6	7.0	.0	.4	28.1	
TOT OBS													562
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.5	
	11-21	.2	.2	.0	.2	.0	.2	.2	.2	.0	.0	1.5	
	22+	.2	.3	1.0	.0	.0	.0	1.8	2.9	.0	.0	6.1	
	TOT %	.4	.6	1.0	.5	.0	.5	2.0	3.1	.0	.0	8.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.2	
	11-21	.0	.1	.2	.0	.0	.0	.4	.3	.0	.0	1.0	
	22+	.2	.0	.2	.0	.0	.0	1.7	.6	.0	.0	2.7	
	TOT %	.2	.1	.4	.0	.0	.1	2.3	.9	.0	.0	3.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.0	.0	.0	.0	.7	.1	.0	.0	1.2	
	11-21	.0	.0	.0	.2	.0	.1	1.0	.2	.0	.0	1.5	
	22+	.6	.1	.7	.3	.0	.0	2.9	2.8	.0	.0	7.4	
	TOT %	.6	.3	.7	.6	.2	.1	4.6	3.1	.0	.0	10.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.7	.2	.0	.0	.0	.2	.2	.3	.0	.0	1.7	
	11-21	.5	.3	.4	.0	.0	.2	1.0	1.7	.0	.0	4.2	
	22+	.9	.1	.2	.0	.2	.2	3.7	3.7	.0	.0	9.1	
	TOT %	2.0	.7	.6	.0	.2	.7	5.0	5.7	.0	.2	15.2	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.9	.4	.2	.2	.0	.0	.2	1.0	.0	.0	2.9	
	11-21	1.0	1.3	.9	.7	.2	1.9	3.7	4.0	.0	.0	13.2	
	22+	2.1	.9	.5	.0	.5	1.0	5.6	6.1	.0	.0	16.7	
	TOT %	4.0	2.6	1.5	.5	.7	2.9	9.6	11.1	.0	.0	32.8	
10+	0-3	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.5	
	4-10	1.0	1.7	.4	1.4	.2	.6	1.1	1.1	.0	.0	7.4	
	11-21	2.9	1.0	.5	.2	.0	1.8	5.8	3.6	.0	.0	15.9	
	22+	.7	.3	.4	.3	.0	.1	2.8	1.5	.0	.0	6.1	
	TOT %	4.6	3.0	1.3	2.0	.2	2.8	9.7	6.4	.0	.0	29.9	
TOT OBS													408
TOT PCT													100.0

FEBRUARY

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1899-1974

AREA 0023 UNEKOTAN ISLAND SE
48.3N 154.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 209	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	7.9	.0	4.3	9.8	25.0	23.2	5.5	.0	.0	.0	76.2	23.8	164
06009	8.3	.0	1.4	12.5	25.7	27.8	6.3	.0	.7	.0	82.6	17.4	144
12015	16.3	.0	.0	5.8	24.4	18.6	4.7	1.2	2.3	1.2	74.4	25.6	86
18021	15.1	.0	2.3	3.5	27.9	22.1	4.7	1.2	.0	1.2	77.9	22.1	86
TOT	92	0	11	42	123	113	26	2	3	3	375	105	480
PCT	10.8	.0	2.3	8.8	25.6	23.5	5.4	.4	.6	.6	78.1	21.9	100.0

TABLE 11

PERCENT FREQUENCY V5BY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	7.7	3.8	12.0	16.4	29.5	30.6	183
06009	9.1	4.8	11.5	15.2	31.5	27.9	165
12015	12.5	6.3	13.3	21.9	21.1	25.0	128
18021	11.1	5.1	7.7	14.5	36.8	24.8	117
TOT	58	29	67	100	176	163	593
PCT	9.8	4.9	11.3	16.9	29.7	27.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF V5BY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	7.6	19.7	47.1	29.3	23.6	157
06009	8.7	18.8	47.8	36.2	15.9	138
12015	15.5	26.2	50.0	25.0	25.0	84
18021	15.7	24.1	47.0	32.5	20.5	83
TOT	50	99	221	144	97	462
PCT	10.8	21.4	47.8	31.2	21.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.9	.0	.0	.0	.0	1	.9
35/39	.0	.9	.0	1.6	.9	.0	2.7	.9	8	7.3
30/34	.0	.0	.0	.0	.9	4.5	5.5	15.5	29	26.4
25/29	.0	.0	.0	2.7	1.8	2.7	5.5	20.0	36	32.7
20/24	.0	.0	.0	.0	1.8	3.6	5.5	10.0	23	20.9
15/19	.0	.0	.0	.9	.9	.9	2.7	6.4	13	11.8
TOTAL	0	1	0	7	7	13	24	58	110	100.0
PCT	.0	.9	.0	6.4	6.4	11.8	21.8	52.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
40/44	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0
35/39	1.4	1.6	.7	.0	.0	.0	3.0	.7	.0	.0
30/34	3.2	8.0	2.3	1.4	.7	3.0	4.3	3.6	.0	.0
25/29	3.0	1.1	2.7	.0	.0	4.8	9.3	11.8	.0	.0
20/24	.9	.0	.7	3.0	.0	.5	10.0	5.9	.0	.0
15/19	.0	.0	.0	.0	.0	.0	10.5	1.4	.0	.0
TOTAL	8.4	10.7	6.4	4.3	.7	9.1	37.0	23.4	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	39	37	36	25	14	10	10	25.0	185
06009	43	39	36	25	14	12	10	25.3	158
12015	41	37	33	25	14	10	10	24.6	127
18021	38	36	32	25	12	10	10	23.6	114
TOT	43	38	34	25	14	10	10	24.7	584

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	7.7	7.7	15.4	20.5	48.7	86	39		
06009	.0	8.3	2.8	8.3	27.8	52.8	88	36		
12015	.0	5.3	5.3	5.3	26.3	57.9	90	19		
18021	.0	6.3	12.5	18.8	6.3	56.3	86	16		
TOT	0	8	7	13	24	58	87	110		

FEBRUARY

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1899-1974AREA 0023 ONEKOTAN ISLAND SE
48.3N 154.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	N FOG	WU FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
5	.0	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
4	.0	.0	.0	.0	.0	.0	.2	.4	.0	3	.0	.6
3	.0	.0	.0	.0	.0	.0	.2	.4	.0	3	.0	.6
2	.0	.0	.0	.0	.0	.0	.4	.2	.0	3	.0	.6
1	.0	.0	.0	.0	.0	.2	1.4	.2	.0	9	.0	1.7
0	.0	.0	.0	.0	.0	1.0	2.1	.2	.0	17	.0	3.3
-1	.0	.0	.0	.0	.2	.4	1.4	.0	.0	10	.0	1.9
-2	.0	.0	.0	.0	.8	3.3	1.5	.2	.0	30	.2	5.6
-3	.0	.0	.0	.0	.8	2.1	.2	.2	.0	17	.0	3.3
-4	.0	.0	.0	.0	2.1	3.9	.4	.0	.0	33	.2	6.2
-5	.0	.0	.0	.2	3.9	2.3	.4	.0	.0	35	.0	6.8
-6	.0	.0	.0	.2	1.5	1.2	.0	.2	.0	16	.0	3.1
-7/-8	.0	.0	.0	2.3	5.6	1.0	.0	.0	.0	46	.0	8.9
-9/-10	.0	.0	.8	4.8	6.6	.6	.0	.0	.0	66	.0	12.7
-11/-13	.0	.2	3.5	11.0	2.5	.4	.0	.0	.0	91	.0	17.6
-14/-16	.0	1.2	7.3	3.3	.8	.0	.0	.0	.0	65	.2	12.4
-17/-19	.4	2.9	2.7	.4	.0	.0	.0	.0	.0	33	.0	6.4
-20/-22	1.7	2.3	.6	.0	.0	.0	.0	.0	.0	24	.0	4.6
-23/-25	1.4	.2	.0	.0	.0	.0	.0	.0	.0	8	.0	1.5
-26/-30	.4	.6	.0	.0	.0	.0	.0	.0	.0	5	.0	1.0
<-30	.2	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	21	38	77	115	128	84	42	11	2	518	3	515
PCT	4.1	7.3	14.9	22.2	24.7	16.2	8.1	2.1	.4	160.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.0	.6	.0	.0	.0	.6	1-2	.0	1.1	.4	.0	.0	.0	1.4
3-4	.0	.6	1.1	.0	.0	.0	1.7	3-4	.0	.4	.8	.1	.0	.0	1.3
5-6	.0	.0	1.7	.3	.0	.0	2.0	5-6	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.4	.7	.3	.4	.0	1.7	7	.0	.4	.4	.4	.0	.0	1.1
8-9	.0	.0	.0	1.2	.0	.0	1.2	8-9	.0	.4	.0	.2	.0	.0	.5
10-11	.0	.0	.0	.4	.5	.0	.9	10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.3	.0	.0	.3	12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	1.6	.0	.0	1.6	13-16	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.3	.0	.3	20-22	.0	.0	.0	.0	.4	.0	.4
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	4.1	4.0	1.2	.0	10.9	TOT PCT	.0	2.6	2.9	1.2	.4	.0	7.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.5	.7	.0	.0	.0	1.2	1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.0	.3	.3	.0	.0	.5	3-4	.0	.4	.4	.4	.0	.0	1.1
5-6	.0	.0	.7	.4	.0	.0	1.1	5-6	.0	.1	.7	.4	.0	.0	1.2
7	.0	.0	.0	.4	.4	.0	.7	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.6	.4	.0	1.0	8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.4	.0	.0	.4	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.4	.0	.4	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.4	.0	.4	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	1.7	2.0	1.4	.0	5.6	TOT PCT	.0	.6	1.1	.8	.0	.0	2.5

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY

AREA 0023 DNEKUTAN ISLAND SE
48.3N 154.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.7	.0	.0	.0	1.2
5-6	.0	.3	.0	.0	.0	.0	.3	.0	.0	1.1	.4	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.0	.0	.0	.0	.3	.4	.5	3.4	1.2	.0	.0	5.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.0	.0	.0	.0	.3	.4	.1	.7	.0	.0	.0	1.2	
1-2	.0	.3	.4	.0	.0	.0	.6	.0	.7	1.5	.0	.0	.0	2.2	
3-4	.0	.6	2.8	.4	.0	.0	3.8	.0	.0	2.1	1.8	.0	.0	3.9	
5-6	.0	.3	3.4	1.9	.0	.0	5.5	.0	1.2	3.5	1.7	.0	.0	6.3	
7	.0	.0	2.2	4.1	.0	.0	6.3	.0	.0	.6	4.5	.7	.0	5.9	
8-9	.0	.0	1.2	4.3	1.0	.0	6.4	.0	.0	1.2	2.1	.1	.0	3.4	
10-11	.0	.0	1.0	3.0	.7	.0	4.7	.0	.0	.8	2.6	.5	.0	3.9	
12	.0	.0	.4	1.2	.0	.0	1.6	.0	.0	.0	2.0	.4	.0	2.3	
13-16	.0	.0	.0	1.4	.9	.0	2.3	.0	.0	.0	1.5	2.0	.0	3.5	
17-19	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.4	.4	.0	.8	
20-22	.0	.0	.0	.6	.7	.0	1.3	.0	.0	.0	.1	.4	.0	.5	
23-25	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.4	11.3	16.9	4.3	.0	33.9	.4	2.0	10.4	16.6	4.5	.0	33.9	99.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	.7	1.4	.7	.0	.0	.0	2.8	
1-2	.4	2.8	3.6	.0	.0	.0	6.8	
3-4	.0	2.5	8.2	2.8	.0	.0	13.5	
5-6	.0	1.8	12.1	5.0	.0	.0	18.9	
7	.0	.7	4.6	9.6	1.4	.0	16.4	
8-9	.0	.4	2.8	8.5	1.4	.0	13.2	
10-11	.0	.0	2.5	6.0	1.8	.0	10.3	
12	.0	.0	.4	4.3	.4	.0	5.0	
13-16	.0	.0	.0	5.3	3.2	.0	8.5	
17-19	.0	.0	.0	.4	1.4	.0	1.8	
20-22	.0	.0	.0	.7	1.8	.0	2.5	
23-25	.0	.0	.0	.0	.4	.0	.4	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	9.6	34.9	42.7	11.7	.0	100.0	281

PERIOD: (OVER-ALL) 1952-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	3.5	6.0	6.8	4.3	1.7	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	5
6-7	.0	.4	2.5	4.1	5.4	2.7	4.1	2.1	1.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	8
8-9	.0	.6	.0	2.1	2.5	3.9	2.1	3.5	1.2	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	93	10
10-11	.0	.4	.2	.8	1.2	1.0	1.4	.6	.8	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	37	10
12-13	.0	.0	.0	.4	.4	.0	.2	.0	.8	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	12	13
>13	.0	.0	.0	.0	.2	.0	.0	.4	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	4	14
INDPT	.8	.8	3.1	3.3	3.1	2.9	2.5	1.9	2.7	.4	1.2	.0	.0	.0	.0	.0	.0	.0	.0	110	J
TOTAL	6	28	37	85	83	52	62	34	46	14	11	3	2	0	0	0	0	0	0	483	R
PCT	1.2	5.8	11.8	17.6	17.2	10.8	12.8	7.0	9.5	2.9	2.3	.6	.4	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1934-1974AREA 0023 ONEKOTAN ISLAND SE
48.4N 154.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	20.2	.0	.0	20.2	8.7	.0	3.3	.0	.0	.6	67.2
NE	1.1	.0	.0	.0	22.8	.0	.0	23.9	4.6	.0	1.7	.0	4.6	.3	65.0
E	2.2	.0	.0	2.2	17.2	.0	.0	21.5	1.6	.0	4.8	2.2	.0	.0	69.9
SE	3.5	.0	4.4	.0	15.0	.0	.0	23.0	.9	.0	15.9	.0	3.5	.0	56.6
S	1.1	.0	1.6	.0	21.1	.0	.0	23.8	8.6	.0	10.3	.0	2.2	.0	55.1
SW	1.0	.0	.0	.0	14.1	.0	2.1	17.3	2.6	.0	2.6	.0	.0	.0	77.5
W	.0	.0	.0	.0	16.9	.0	.0	16.9	9.1	.0	1.8	.4	1.2	1.0	69.6
NW	.0	.0	.0	.4	19.7	.0	.0	20.0	6.9	.0	.8	.1	1.8	.5	69.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	18.8	.0	.0	18.8	.0	.0	.0	.0	.0	.0	81.2
TOT PCT	.5	.0	.2	.2	19.0	.0	.1	20.0	6.6	.0	2.8	.2	1.5	.5	68.3
TOT OBS:	848														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	.0	.0	.0	.0	20.9	.0	.4	21.3	6.8	.0	3.2	.4	.8	.8	66.7
06009	.0	.0	.8	.4	16.5	.0	.0	17.8	4.1	.0	2.9	.0	2.1	.4	72.7
12015	2.2	.0	.0	.0	20.0	.0	.0	22.2	6.7	.0	2.2	.4	2.2	.4	65.8
18021	.0	.0	.0	.6	16.2	.0	.0	16.8	9.6	.0	2.4	.0	1.2	.0	70.1
TOT PCT	.6	.0	.2	.2	18.6	.0	.1	19.7	6.6	.0	2.7	.2	1.6	.5	68.7
TOT OBS:	883														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	3.8	8.4	4.4	.8	.0		17.6	18.0		17.9	16.7	12.1	19.6	16.9	28.1	24.1	25.0
NE	.5	2.6	4.0	3.5	.7	.0		11.3	18.9		12.0	21.7	10.4	7.1	11.2	6.3	12.4	5.6
E	.1	1.3	1.8	2.0	.5	.0		5.8	20.3		5.4	11.7	6.9	16.1	2.6	3.1	5.2	30.6
SE	.2	1.0	1.6	.3	.7	.2		3.4	16.5		1.0	16.7	4.0	19.6	4.1	3.1	.2	13.9
S	.1	1.0	2.4	1.6	.3	.0		5.5	19.4		5.0	6.7	3.8	5.4	8.3	9.4	4.8	.0
SW	.1	2.0	1.6	1.2	.2	.0		5.1	15.5		3.5	.0	7.1	5.4	4.2	15.6	4.8	.0
W	.0	2.3	7.1	5.7	1.2	.1		16.4	20.4		19.9	6.7	19.2	8.9	15.3	12.5	17.4	11.1
NW	.0	4.6	17.8	11.6	2.8	.0		32.8	21.0		37.3	20.0	34.1	17.9	34.3	21.9	29.3	13.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0		1.9	.0	2.3	.0	3.2	.0	1.7	.0
TOT OBS	21	122	263	198	44	2	652		19.1		156	15	173	14	154	16	115	9
TOT PCT	3.2	18.7	40.6	30.4	6.7	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+					00	03	06	12	18
N	2.0	6.1	7.1	1.9	.5		17.6	18.0		17.8	12.7	17.9	24.2	
NE	1.8	2.9	4.6	1.6	.5		11.3	18.9		12.9	10.2	10.7	11.9	
E	.5	1.4	2.3	1.4	.2		5.8	20.3		6.0	7.6	2.6	7.1	
SE	.6	1.3	1.2	.0	.3		3.4	16.5		2.3	5.2	4.0	1.2	
S	.3	2.0	2.2	.6	.3		5.5	19.4		5.1	3.9	8.4	4.4	
SW	.7	2.6	1.3	.5	.0		5.1	15.5		3.2	7.0	5.3	4.4	
W	.5	6.3	6.0	3.2	.4		16.4	20.4		15.1	18.4	15.0	16.9	
NW	1.2	9.3	14.6	6.9	.9		32.8	21.0		35.8	32.9	33.1	28.2	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	2.1						2.1	.0		1.8	2.1	2.9	1.6	
TOT OBS	63	208	256	105	20	652		19.1		171	187	170	124	
TOT PCT	9.7	31.9	39.3	16.1	3.1		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1934-1974

MARCH

AREA 0023 ONEKOTAN ISLAND SE
48.4N 154.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	2.5	6.1	5.5	3.9	
NP	.8	.7	2.9	5.4	6.5	
E	.1	.2	1.3	2.9	7.1	
SE	.2	.1	.9	1.4	6.8	
S	.7	.5	2.0	2.5	6.1	
SW	.8	1.0	2.1	2.1	5.6	
W	2.6	1.8	9.3	6.3	5.7	
NW	3.6	5.2	14.8	10.3	5.7	
VAR	.0	.0	.0	.0	.0	
CALM	1.1	.6	.1	.7	3.5	
TOT OBS	78	89	281	264	712	5.9
TOT PCT	11.0	12.5	39.5	37.1	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	2.5	6.1	5.5	3.9	
NP	.8	.7	2.9	5.4	6.5	
E	.1	.2	1.3	2.9	7.1	
SE	.2	.1	.9	1.4	6.8	
S	.7	.5	2.0	2.5	6.1	
SW	.8	1.0	2.1	2.1	5.6	
W	2.6	1.8	9.3	6.3	5.7	
NW	3.6	5.2	14.8	10.3	5.7	
VAR	.0	.0	.0	.0	.0	
CALM	1.1	.6	.1	.7	3.5	
TOT OBS	78	89	281	264	712	5.9
TOT PCT	11.0	12.5	39.5	37.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT-NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
1.2	.0	.2	.4	3.0	4.3	.4	.3	.0	.1	5.3	
1.1	.1	.0	.2	2.1	2.5	.6	.6	.1	.0	2.5	
.4	.1	.2	.0	1.2	1.3	.3	.1	.0	.0	.9	
.1	.0	.1	.4	.5	.5	.1	.2	.0	.0	1.4	
1.1	.0	.3	.3	1.4	1.0	.1	.0	.0	.0	.6	
.4	.0	.1	.0	.9	1.5	.2	.0	.0	.0	1.4	
1.4	.0	.0	1.2	3.6	4.4	2.0	.1	.0	.1	2.8	
2.6	.3	.2	1.6	6.8	7.8	2.8	.3	.2	.0	7.0	
.0	.0	.0	.0	.0	.0	.0	.0	.7	.1	10.7	
.3	.0	.0	.1	.1	.3	.0	.0	.0	.0	.0	
6.1	4	8	30	140	168	46	11	8	.0	1.7	
8.6	.6	1.1	4.2	19.7	23.6	6.5	1.5	1.1	.4	32.7	712
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.0	1.4	1.5	1.5	1.5	1.5	1.5	1.5
>5000	1.6	2.9	3.2	3.2	3.2	3.2	3.2	3.2
>3500	4.4	7.7	9.0	9.3	9.5	9.5	9.6	9.6
>2000	13.7	24.7	29.7	31.2	32.5	33.0	33.3	33.3
>1000	21.1	37.7	45.8	48.8	51.4	52.3	53.3	53.3
>600	22.5	40.0	48.8	52.3	55.3	56.7	57.7	57.7
>300	22.7	40.5	49.6	53.2	56.3	57.8	58.8	58.8
>150	22.9	40.8	50.0	53.7	56.8	58.4	59.3	59.3
>0	23.2	41.8	52.2	58.2	62.7	65.1	67.0	67.5
TOTAL	169	305	381	425	458	475	489	493

TOTAL NUMBER OF OBS: 730

PCT FREQ NH <5/8: 32.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.3	2.1	7.4	7.7	10.5	10.1	11.5	10.5	28.5	7.4	810

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1934-1974

MARCH

AREA 0023 ONEKOTAN ISLAND SE
48.4N 154.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.8	.8	.4	.0	.2	.1	1.0	.8	.0	.0	4.1	
	NN PCP	.2	.3	.2	.5	.2	.1	.4	.3	.0	.0	2.1	
	TOT %	1.0	1.1	.5	.5	.5	.2	1.4	1.0	.0	.0	6.3	
1/2<1	PCP	.9	.4	.1	.1	.1	.2	.6	1.0	.0	.0	3.4	
	NN PCP	.3	.0	.1	.1	.1	.1	.0	.7	.0	.0	1.2	
	TOT %	1.2	.4	.1	.1	.2	.2	.6	1.7	.0	.0	4.6	
1<2	PCP	.9	.7	.4	.1	.4	.1	.4	1.8	.0	.2	5.1	
	NN PCP	.3	.2	.2	.1	.1	.1	.2	.3	.0	.0	1.5	
	TOT %	1.1	.9	.7	.2	.5	.3	.6	2.1	.0	.2	6.6	
2<5	PCP	.5	.6	.0	.5	.4	.3	.7	1.5	.0	.0	4.5	
	NN PCP	1.2	.9	.5	.4	.2	.1	2.5	2.7	.0	.0	8.4	
	TOT %	1.6	1.5	.5	.9	.6	.4	3.3	4.1	.0	.0	12.9	
5<10	PCP	.1	.0	.1	.1	.1	.3	.6	1.2	.0	.1	2.7	
	NN PCP	4.7	1.9	1.1	.8	1.8	1.7	5.2	8.0	.0	.5	25.7	
	TOT %	4.9	1.9	1.2	1.0	2.0	2.0	5.8	9.1	.0	.6	28.4	
10+	PCP	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	NN PCP	6.0	4.7	2.3	.7	1.6	2.6	8.2	13.8	.0	1.1	40.9	
	TOT %	6.2	4.7	2.3	.7	1.7	2.6	8.2	13.8	.0	1.1	41.1	
TOT OBS													844
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	11-21	.3	.1	.3	.3	.2	.0	.0	.3	.0	.0	1.4	
	22+	.2	.7	.0	.0	.3	.2	.8	.6	.0	.0	2.9	
	TOT %	.5	.7	.4	.6	.5	.2	.8	1.0	.0	.0	4.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	
	11-21	.6	.2	.0	.2	.0	.0	.0	.5	.0	.0	1.4	
	22+	.4	.2	.1	.0	.0	.0	.4	.9	.0	.0	2.1	
	TOT %	1.2	.4	.1	.2	.1	.1	.4	1.4	.0	.0	3.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.1	.2	.0	.0	.0	.2	.0	.1	.0	.0	.5	
	11-21	.4	.4	.0	.2	.0	.0	.3	.8	.0	.0	1.9	
	22+	.5	.6	.8	.2	.3	.0	.3	1.5	.0	.0	4.1	
	TOT %	1.0	1.1	.8	.3	.3	.2	.6	2.3	.0	.2	6.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.2	.1	.5	.1	.2	.3	.4	.0	.0	2.1	
	11-21	.6	.5	.2	.3	.2	.2	.3	1.3	.0	.0	3.5	
	22+	1.0	1.0	.2	.2	.3	.3	1.5	1.9	.0	.0	6.3	
	TOT %	1.9	1.6	.4	1.0	.6	.7	2.0	3.6	.0	.0	11.9	
5<10	0-3	.2	.0	.0	.0	.1	.1	.0	.0	.0	.6	1.0	
	4-10	1.0	.2	.3	.9	.3	.6	.3	1.1	.0	.0	3.8	
	11-21	3.1	.9	.6	.6	.9	.8	2.3	4.1	.0	.0	13.2	
	22+	1.6	1.0	.6	.2	.8	.3	2.8	4.3	.0	.0	11.6	
	TOT %	5.8	2.1	1.5	.8	2.0	1.8	5.3	9.5	.0	.6	29.5	
10+	0-3	.0	.5	.0	.2	.0	.0	.0	.0	.0	1.1	1.7	
	4-10	2.4	2.1	.9	.3	.6	1.0	1.9	3.1	.0	.0	12.2	
	11-21	3.6	1.9	.7	.1	1.0	.7	4.5	6.6	.0	.0	19.0	
	22+	1.2	.9	1.0	.1	.3	.6	1.3	5.2	.0	.0	10.6	
	TOT %	7.2	5.3	2.6	.6	1.8	2.4	7.6	14.9	.0	1.1	43.6	
TOT OBS													631
TOT PCT													100.0

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1934-1974

MARCH

TABLE 10

AREA 0023 ONEKOTAN ISLAND SE
48.4N 154.9E

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	5.2	.9	1.7	3.5	20.1	26.6	6.1	2.2	1.3	.4	68.1	31.9	229
06009	6.3	.5	.9	5.4	23.0	27.5	6.3	.5	1.4	.9	72.5	27.5	222
12015	14.0	.0	.6	3.9	15.1	16.8	3.4	2.2	1.1	.0	57.0	43.0	179
18021	8.5	.8	.8	3.9	18.6	17.8	10.9	1.6	.0	.0	62.8	37.2	129
TOT	62	4	8	32	148	175	48	12	8	3	500	259	759
PCT	8.2	.5	1.1	4.2	19.5	23.1	6.3	1.6	1.1	.4	65.9	34.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	5.2	4.4	5.2	12.5	25.0	47.6	248
06009	3.7	5.3	6.6	11.1	27.5	45.9	244
12015	7.9	4.4	7.0	17.0	31.4	32.3	229
18021	8.5	6.5	7.1	14.2	30.2	33.7	169
TOT	54	45	57	121	252	361	890
PCT	6.1	5.1	6.4	13.6	28.3	40.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OM
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	5.0	12.7	28.5	42.5	29.0	221
06009	6.4	12.3	28.6	45.5	25.9	220
12015	14.2	20.1	39.6	26.0	34.3	169
18021	9.2	20.0	40.0	30.8	29.2	120
TOT	60	113	241	275	214	730
PCT	8.2	15.5	33.0	37.7	29.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.8	.0	.8	.0	.0	2	1.6
35/39	.0	.0	1.6	1.6	.8	4.7	2.4	.0	14	11.0
30/34	.0	.0	.8	3.1	3.1	3.1	17.3	15.7	55	43.3
25/29	.0	.0	.0	1.6	.8	6.3	5.5	11.0	32	25.2
20/24	.0	.0	.0	.0	.0	2.4	4.7	9.4	21	16.5
15/19	.0	.0	.0	.0	.0	.8	.0	1.6	3	2.4
TOTAL	0	0	3	9	6	23	38	48	127	100.0
PCT	.0	.0	2.4	7.1	4.7	18.1	29.9	37.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
40	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0
35	2.4	1.6	.6	.8	.0	.0	3.7	1.8	.0	.0
30	8.7	7.9	3.5	2.2	2.8	.6	9.3	8.5	.0	.0
25	3.7	1.0	2.0	.4	1.2	1.4	7.1	8.5	.0	.0
20	.0	.8	.0	.0	.0	.6	5.5	9.6	.0	.0
15	.0	.0	.0	.0	.0	.8	1.4	.2	.0	.0
TOTAL	14.8	11.4	6.1	3.3	3.9	3.3	27.6	29.5	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	43	42	37	29	19	12	11	26.7	250
06009	45	41	37	30	19	16	14	29.1	241
12015	43	39	37	28	18	14	12	28.0	230
18021	43	41	34	27	18	14	12	27.0	163
TOT	45	41	36	28	18	14	11	28.3	884

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	OBSERVATION PERIOD BY HOUR							MEAN	TOTAL OBS
	0-29	30-59	60-69	70-79	80-89	90-100			
00003	.0	2.7	5.4	18.9	29.7	43.2	86	37	
06009	.0	7.9	10.5	15.8	36.8	28.9	82	38	
12015	.0	14.3	.0	21.4	25.0	39.3	83	28	
18021	.0	16.0	.0	16.0	24.0	44.0	84	25	
TOT	0	12	6	23	38	49	84	129	

MARCH

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1934-1974AREA 0023 ONEKOTAN ISLAND SE
48.4N 154.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.1		2	.0	.3
9/10	.0	.0	.0	.0	.0	.0	.0	.5	.1		5	.3	.4
7/8	.0	.0	.0	.0	.0	.0	.4	.1	.0		4	.1	.4
6	.0	.0	.0	.0	.0	.1	.4	.0	.0		4	.1	.4
5	.0	.0	.0	.0	.0	.1	.8	.0	.0		7	.1	.8
4	.0	.0	.0	.0	.0	.8	.6	.0	.0		11	.4	1.0
3	.0	.0	.0	.0	.3	1.4	.1	.0	.0		14	.0	1.8
2	.0	.0	.0	.0	.6	2.5	.5	.0	.0		28	.0	3.6
1	.0	.0	.0	.0	1.7	.9	.4	.0	.0		19	.1	2.3
0	.0	.0	.0	.0	.1	4.8	4.0	.3	.0		73	.0	9.4
-1	.0	.0	.0	.0	.3	2.5	1.9	.0	.0		36	.0	4.7
-2	.0	.0	.0	.0	.5	6.7	1.9	.0	.1		72	.3	9.1
-3	.0	.0	.0	.0	.9	2.3	.9	.0	.0		32	.0	4.1
-4	.0	.0	.0	.0	2.2	3.9	.5	.0	.0		51	.1	6.5
-5	.0	.0	.0	.5	4.7	2.6	.6	.0	.0		65	.3	8.2
-6	.0	.0	.0	.3	3.0	1.2	.4	.0	.0		37	.1	4.7
-7/-8	.0	.0	.0	1.4	7.5	1.7	.5	.1	.0		87	.3	11.0
-9/-10	.0	.0	.1	4.3	2.8	.3	.1	.0	.0		59	.0	7.6
-11/-13	.0	.0	2.2	5.3	3.5	.0	.1	.0	.0		86	.3	10.9
-14/-16	.0	.6	2.6	1.6	.4	.1	.0	.0	.0		41	.0	5.3
-17/-19	.3	.4	1.0	.9	.0	.0	.0	.0	.0		20	.1	2.5
-20/-22	.3	.5	.4	.6	.0	.0	.0	.0	.0		14	.1	1.7
-23/-25	.0	.6	.0	.1	.0	.0	.0	.0	.0		6	.0	.8
TOTAL	4		49		200		131		9		773	21	752
PCT	.5	2.2	6.3	15.0	25.9	28.1	16.9	3.6	1.2	.3	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	.0	.0	.0	.0	1.4	.6	1.4	.0	.0	.0	.0	2.0
1-2	.0	1.3	1.3	.0	.0	.0	2.6	.0	.5	.5	.0	.0	.0	.9
3-4	.0	1.3	2.4	.3	.0	.0	6.0	.0	.2	1.3	.1	.0	.0	1.6
5-6	.0	.4	2.2	.5	.2	.0	3.3	.0	.5	.9	.3	.0	.0	1.6
7	.0	.0	1.2	1.0	.2	.0	2.5	.0	.0	.7	.1	.2	.0	.9
9-9	.0	.2	.7	.0	.0	.0	1.6	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.3	.2	.0	.0	.5
13-16	.0	.0	.2	.7	.0	.0	.9	.0	.0	.1	1.1	.0	.0	1.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.3	.0	.3
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.5	8.1	4.8	.5	.0	18.1	.6	2.5	3.6	2.8	.5	.0	10.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.2	.3	.0	.0	.0	.0	.5
1-2	.0	.8	.2	.0	.0	.0	1.0	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.2	.4	.2	.0	.0	.8	.0	.0	.4	.1	.0	.0	.5
5-6	.0	.2	.2	.4	.0	.0	.7	.0	.0	.2	.2	.0	.0	.4
7	.0	.0	.2	.6	.0	.0	.8	.0	.0	.1	.1	.0	.0	.1
9-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.2	.6	.2	.0	.9	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.2	.4	.0	.0	.6	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.4
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	1.4	2.6	.2	.0	5.5	.2	.5	.9	.4	.2	.2	2.4

PERIOD: (OVER-ALL) 19A3-1974

MARCH

TABLE 18 (CONT)

AREA 0023 DNEKUTAN ISLAND SE
48.4N 154.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.2	.0	.0	.0	.6	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	.5	.0	.0	.0	.0	.5	.0	.8	.9	.0	.0	.0	1.6
3-4	.0	.0	.6	.6	.0	.0	1.2	.0	.2	.3	.0	.0	.0	.5
5-6	.0	.0	.6	.2	.0	.0	.8	.0	.0	.1	.2	.0	.0	.3
7	.0	.0	.5	.6	.0	.0	1.1	.0	.4	.3	.2	.0	.0	.9
8-9	.0	.0	.4	.2	.0	.0	.6	.0	.0	.2	.3	.2	.0	.7
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.2	.1	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.2	.3	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	2.9	1.8	.2	.0	5.7	.0	2.4	1.7	1.1	.3	.0	5.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.2	.0	.3	.0	.0	.2	.0	1.7	.2	.0	.0	.0	1.9	1.9
1-2	.0	.6	1.2	.0	.0	.0	1.7	.0	.7	1.5	.0	.0	.0	2.2	3.9
3-4	.0	.8	1.5	.2	.0	.0	2.6	.0	.9	5.2	1.0	.0	.0	7.6	11.5
5-6	.0	.0	1.7	1.2	.0	.0	2.9	.0	.6	3.0	2.0	.3	.0	5.9	17.4
7	.0	.2	.8	1.1	.4	.0	2.0	.0	.1	2.0	2.7	1.0	.0	5.8	23.2
8-9	.0	.0	.3	1.1	.2	.0	1.5	.0	.0	1.0	2.8	.6	.0	3.8	27.0
10-11	.0	.0	.2	.6	.0	.0	.8	.0	.0	.7	2.2	.6	.0	3.5	30.5
12	.0	.0	.3	.8	.0	.0	1.1	.0	.0	.2	.5	.4	.0	1.1	31.6
13-16	.0	.0	.0	.0	.0	.2	.2	.0	.0	.1	.7	.2	.0	1.0	32.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.0	.0	.1	1.3	33.9
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	34.3
23-25	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	34.7
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34.7
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34.7
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34.7
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34.7
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34.7
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34.7
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34.7
TOT PCT	.0	1.7	6.6	6.5	.9	.2	15.9	.0	4.0	14.1	13.3	3.0	.1	34.5	97.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.5	6.4	.4	.0	.0	.0	10.2	10.2
1-2	.0	5.3	5.5	.0	.0	.0	10.9	21.1
3-4	.0	3.7	12.1	7.9	.0	.0	18.6	39.7
5-6	.0	1.6	8.8	4.9	.4	.0	15.8	55.5
7	.0	.6	5.7	6.8	1.6	.0	14.8	70.3
8-9	.0	.2	2.9	5.3	.6	.0	9.0	79.3
10-11	.0	.0	1.6	5.7	.8	.0	8.2	87.5
12	.0	.0	.8	1.6	.4	.0	2.9	90.4
13-16	.0	.0	.8	4.1	.4	.0	5.3	95.7
17-19	.0	.0	.6	1.6	.2	.2	2.7	98.4
20-22	.0	.0	.0	.0	.8	.0	.8	99.2
23-25	.0	.0	.0	.0	.2	.2	.4	99.6
26-32	.0	.0	.0	.2	.2	.0	.4	100.0
33-40	.0	.0	.0	.0	.0	.0	.0	100.0
41-48	.0	.0	.0	.0	.0	.0	.0	100.0
49-60	.0	.0	.0	.0	.0	.0	.0	100.0
61-70	.0	.0	.0	.0	.0	.0	.0	100.0
71-86	.0	.0	.0	.0	.0	.0	.0	100.0
87+	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.5	17.8	39.3	33.2	5.7	.4	100.0	488

PERIOD: (OVER-ALL) 1952-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	3.1	8.3	6.2	5.0	1.3	1.5	.3	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	208	5
6-7	.0	1.0	1.6	4.1	5.1	4.1	2.8	1.5	2.2	.9	.4	.3	.1	.0	.0	.0	.0	.0	.0	190	8
8-9	.0	.0	.9	1.3	3.0	2.1	2.8	1.5	1.3	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	115	9
10-11	.0	.9	.1	1.5	.6	1.5	1.0	.4	.9	.3	.4	.5	.3	.0	.0	.0	.0	.0	.0	66	10
12-13	.0	.0	.3	.4	.5	.1	.3	.1	.3	.5	.3	.0	.4	.0	.0	.0	.0	.0	.0	24	12
15-19	.0	.0	.0	.3	.0	.3	.4	.4	.5	.0	.6	.3	.0	.0	.0	.0	.0	.0	.0	21	14
INDBT	2.7	2.4	2.8	2.6	2.6	.9	2.3	4	1.8	.9	.5	.1	.4	.0	.0	.0	.0	.0	.0	155	7
TOTAL	2.7	5.8	11.1	12.7	13.1	8.0	8.7	3.6	5.8	3.2	2.0	.9	.9	.0	.0	.0	.0	.0	.0	779	8
PCT	2.7	7.4	14.2	16.3	16.8	10.3	11.2	4.6	7.4	4.1	2.6	1.2	1.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1909-1974

APRIL

TABLE 1

AREA 0023 ONEKOTAN ISLAND SE
48.5N 154.8E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE																OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA						
N	.0	.0	.0	.0	18.6	.0	.0	18.6	4.3	.0	5.1	1.1	.8	.0	70.2						
NE	2.4	.0	.3	.0	23.8	.0	.0	26.5	1.2	.0	4.6	2.4	.0	.0	69.2						
E	6.4	.0	3.8	.0	23.7	.0	.0	32.7	5.6	.0	12.8	.0	4.5	.0	44.4						
SE	6.1	.0	9.4	.0	19.4	.0	.0	31.3	3.2	.0	19.1	3.2	.0	.0	42.8						
S	6.0	.0	5.4	.0	4.8	.0	.0	15.7	1.6	.0	21.9	1.4	.8	.0	58.0						
SW	3.0	.6	.6	.0	11.1	.6	.0	14.0	1.3	.0	10.6	.6	.0	.6	72.8						
W	.6	.0	.9	.0	10.7	.0	.0	12.1	5.5	.0	4.9	.6	1.2	.6	75.1						
NW	2.2	.0	3.2	.0	12.9	.0	.0	17.6	8.2	.0	.9	.0	.2	.6	73.1						
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0						
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0						
TOT PCT	2.9	.1	2.5	.0	13.7	.1	.0	18.5	3.9	.0	9.6	1.0	.8	.3	65.9						
TOT OBS:	925																				

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE																OTHER WEATHER PHENOMENA									
HOURLY (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG W/1 PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA									
0000	2.3	.0	1.5	.0	13.0	.4	.0	16.9	4.2	.0	11.5	.4	.8	.4	65.9										
0600	2.2	.0	4.0	.0	11.0	.0	.0	18.1	4.1	.0	11.0	1.5	.7	.4	65.2										
1200	3.3	.4	2.6	.0	14.3	.0	.0	19.6	1.7	.0	7.8	.4	.9	.4	69.1										
1800	3.4	.0	1.0	.0	17.0	.0	.0	20.9	3.9	.0	9.7	1.5	.5	.0	63.6										
TOT PCT TOT OBS:	2.8 970	.1	2.4	.0	13.6	.1	.0	18.1	3.8	.0	10.1	.9	.7	.3	66.0										

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	02	06	09	12	15	18	21
N	.4	2.1	3.6	3.0	.2	.0		9.3	17.6		9.8	8.7	8.3	9.2	8.8	5.6	12.2	8.8
NE	.4	2.0	4.4	2.3	.2	.0		9.3	16.6		9.8	16.3	7.6	13.3	10.1	11.1	6.2	8.1
E	.0	2.1	2.8	1.8	.2	.0		6.9	16.7		3.8	4.7	5.2	7.7	10.7	10.0	7.4	11.3
SE	.0	2.0	2.8	3.3	.8	.0		8.9	20.3		10.4	5.8	10.3	9.7	9.2	11.7	4.6	7.3
S	.2	2.7	6.8	2.7	.5	.1		12.8	17.2		14.1	12.2	14.9	18.9	9.5	8.9	12.6	7.5
SW	.2	4.1	8.3	4.3	.4	.0		17.3	16.8		16.0	22.1	14.4	18.9	17.6	12.8	19.8	24.4
W	.4	3.4	8.7	5.2	1.5	.0		19.2	19.5		14.9	15.7	20.0	13.3	20.8	20.6	18.0	20.6
NW	.1	1.7	4.3	4.9	2.1	.0		15.1	21.7		14.9	14.5	17.5	9.2	12.6	19.4	17.6	9.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0		1.3	.0	1.7	.0	.8	.0	1.6	2.5
TOT OBS	22	154	334	210	44	1	765	18.3			158	43	174	49	131	45	125	40
TOT PCT	2.9	20.1	43.7	27.5	5.8	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	.9	3.5	3.7	1.1	.1		9.3	17.6	9.6	8.5	8.0	11.4
NE	.8	3.9	3.9	.8	.1		9.3	16.6	11.2	8.9	10.4	6.7
E	.7	3.0	2.5	.7	.1		6.9	16.7	4.0	5.7	10.5	8.3
SE	.9	2.4	3.0	2.5	.0		8.9	20.3	9.5	10.2	9.8	5.3
S	1.5	4.5	5.9	.6	.3		12.8	17.2	13.7	15.8	9.4	11.4
SW	2.3	6.3	6.9	1.6	.2		17.3	16.8	17.3	15.4	16.3	20.9
W	1.6	6.0	7.1	4.2	.3		19.2	19.5	19.0	18.5	20.7	18.6
NW	.9	4.8	5.7	2.7	1.0		15.1	21.7	14.8	15.7	14.3	15.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	1.0	1.3	.6	1.8
TOT OBS	83	262	296	108	16	765	18.3		201	223	176	165
TOT PCT	10.8	34.2	38.7	14.1	2.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974

APRIL

AREA 0023 ONEKOTIAN ISLAND SE
48.5N 154.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0603	1.0	1.0	18.9	42.3	28.9	7.5	.5	19.4	100.0	201
0609	1.3	1.8	19.7	40.4	29.1	7.6	.0	18.7	100.0	223
1215	.6	3.4	23.3	44.9	25.6	2.3	.0	16.7	100.0	176
1821	1.8	.6	18.8	48.5	25.5	4.8	.0	18.0	100.0	165
TOT	.9	1.3	15.4	33.4	21.0	4.4	1	18.3		765
PCT	1.2	1.7	20.1	43.7	27.5	5.8	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	1.8	1.1	3.4	3.9		5.6
NE	.8	.3	2.0	4.0		6.5
E	.3	.0	.7	5.6		7.5
SE	.3	.0	.6	6.7		7.5
S	1.9	1.3	1.4	9.1		6.3
SW	4.3	1.8	4.5	7.1		5.2
W	5.8	2.0	5.6	6.1		4.8
NW	2.8	1.4	6.7	4.8		5.5
VAR	.0	.0	.0	.0		.0
CALM	.7	.1	.3	.4		3.5
TOT OBS	129	56	176	329	690	5.8
TOT PCT	18.7	8.1	25.5	47.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.5	.0	.1	.3	1.2	2.6	.7	.1	.0	.0	3.9	
NE	1.2	.0	.2	.3	1.0	1.9	.7	.1	.2	.3	1.2	
E	1.7	.0	.1	1.1	1.8	1.1	.1	.0	.1	.1	.4	
SE	2.6	.0	.2	.9	1.1	1.7	.4	.0	.0	.1	.5	
S	4.1	.0	.4	.8	2.4	1.8	.3	.1	.1	.1	3.6	
SW	2.7	.0	.1	.7	2.9	2.4	1.0	.0	.0	.5	7.5	
W	1.6	.0	.3	.9	2.7	4.1	.6	.0	.0	.3	9.1	
NW	1.7	.4	.1	1.2	2.2	3.1	.9	.3	.1	.0	5.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.0	.0	.0	.1	.1	.0	.0	.0	.9	
TOT OBS	121	3	11	42	105	130	33	5	4	10	690	
TOT PCT	17.5	.4	1.6	6.1	15.2	18.8	4.8	.7	.6	1.4	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM) OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	1.3	1.8	2.0	2.0	2.0	2.0	2.0	2.0
OR >5000	1.7	2.4	2.7	2.7	2.7	2.7	2.7	2.7
OR >3500	4.5	6.7	7.4	7.6	7.6	7.6	7.6	7.6
OR >2000	13.4	23.0	26.1	26.6	26.9	26.9	26.9	26.9
OR >1000	16.7	31.8	38.4	40.2	41.0	41.5	41.6	41.7
OR >600	17.6	34.7	42.9	45.4	46.6	47.3	47.6	47.8
OR >300	18.1	35.6	44.1	46.6	48.0	48.9	49.2	49.3
OR >150	18.1	35.7	44.5	47.1	48.5	49.3	49.6	49.7
OR >0	18.3	37.4	49.0	53.9	58.3	61.2	66.9	67.8
TOTAL	131	267	350	385	416	437	478	484

TOTAL NUMBER OF OBS: 714

PCT FREQ NH <5/8: 32.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
10.7	4.6	5.2	5.3	5.0	4.8	8.4	9.9	29.8	16.4	776

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974

APRIL

AREA 0023 ONEKOTAN ISLAND SE
48.9N 154.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.5	1.2	.8	.4	.4	.3	.5	.4	.0	.0	4.4	
	NO PCP	.2	.4	.6	1.1	1.6	1.6	.3	.2	.0	.2	6.2	
	TOT %	.7	1.5	1.4	1.4	2.0	1.9	.8	.6	.0	.2	10.6	
1/2<1	PCP	.4	.4	.4	.4	.7	.3	.3	.2	.0	.0	2.9	
	NO PCP	.3	.1	.1	.1	.3	.1	.2	.2	.0	.0	1.4	
	TOT %	.6	.5	.4	.5	1.0	.4	.5	.4	.0	.0	4.3	
1<2	PCP	.4	.1	.4	.6	.2	.7	.5	.5	.0	.0	3.4	
	NO PCP	.4	.1	.5	.1	.2	.1	.3	.4	.0	.1	2.4	
	TOT %	.8	.2	.9	.7	.4	.8	.8	.9	.0	.1	5.7	
2<5	PCP	.7	.8	.7	.5	.7	1.0	.2	1.5	.0	.0	6.1	
	NO PCP	.8	.7	1.1	.6	1.9	.8	1.4	.8	.0	.0	8.1	
	TOT %	1.5	1.5	1.8	1.1	2.6	1.8	1.7	2.3	.0	.0	14.2	
5<10	PCP	.0	.1	.1	.4	.2	.2	.5	.0	.0	.0	1.5	
	NO PCP	2.2	2.1	1.4	2.1	3.3	4.4	5.1	3.5	.0	.1	24.0	
	TOT %	2.2	2.2	1.5	2.5	3.4	4.5	5.6	3.5	.0	.1	25.5	
10+	PCP	.1	.0	.0	.0	.0	.0	.2	.1	.0	.0	.3	
	NO PCP	4.3	3.1	1.2	1.2	4.0	8.7	8.6	7.3	.0	.8	39.3	
	TOT %	4.4	3.1	1.2	1.2	4.0	8.7	8.8	7.4	.0	.8	39.6	
TOT OBS													924
TOT PCT		10.2	9.0	7.3	7.4	13.5	18.7	18.2	15.1	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.3	.3	.3	.2	.2	.2	.0	.1	.0		1.6	
	11-21	.3	.5	.5	.2	.8	.6	.2	.5	.0		3.5	
	22+	.3	1.0	.6	1.0	.5	.3	.5	.3	.0		4.4	
	TOT %	.8	1.8	1.4	1.3	1.5	1.1	.7	.9	.0	.3	9.8	
1/2<1	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.0	.1	.1	.1	.0	.1	.0	.0		.7	
	11-21	.0	.3	.3	.2	.5	.1	.2	.2	.0		1.9	
	22+	.3	.1	.1	.3	.1	.1	.4	.1	.0		1.6	
	TOT %	.4	.6	.5	.6	.7	.3	.8	.3	.0	.0	4.3	
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.2	.0	.4	.1	.1	.1	.0		1.1	
	11-21	.4	.0	.5	.4	.0	.7	.3	.3	.0		2.6	
	22+	.1	.0	.1	.4	.0	.3	.0	.4	.0		1.3	
	TOT %	.6	.1	.8	.9	.5	1.0	.4	.9	.0	.0	5.1	
2<5	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	
	4-10	.3	.1	.3	.4	.2	.1	.3	.1	.0		1.9	
	11-21	.4	.5	.5	.6	1.4	1.2	.3	1.3	.0		6.2	
	22+	.5	.7	.5	.4	1.0	.2	1.2	1.2	.0		5.6	
	TOT %	1.3	1.3	1.2	1.5	2.6	1.5	1.8	2.6	.0	.1	14.0	
5<10	0-3	.1	.0	.0	.0	.1	.1	.1	.0	.0	.1	.5	
	4-10	.7	.8	.6	.8	.7	1.2	.5	.3	.0		5.6	
	11-21	.8	1.0	.9	.5	1.7	1.6	2.4	1.6	.0		10.1	
	22+	.8	.5	.5	.4	1.1	1.5	3.0	1.5	.0		10.3	
	TOT %	2.4	2.3	1.5	1.4	3.6	4.4	6.0	3.5	.0	.1	26.6	
10+	0-3	.1	.3	.0	.0	.0	.1	.3	.1	.0	.7	1.6	
	4-10	.6	.7	.6	.5	1.1	2.5	2.4	1.0	.0		9.5	
	11-21	1.8	2.3	.7	.7	2.3	3.9	5.3	2.3	.0		19.3	
	22+	1.3	.2	.2	.2	.6	2.3	1.3	3.6	.0		9.8	
	TOT %	3.8	3.5	1.5	1.4	4.1	8.9	9.3	7.1	.0	.7	40.3	
TOT OBS													745
TOT PCT		9.4	9.5	7.0	8.5	13.0	17.1	19.0	15.3	.0	1.2	100.0	

APRIL

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1964-1974AREA 0023 ONEKOTAN ISLAND SE
48.5N 154.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	15.6	.4	1.3	7.6	15.2	17.9	4.9	.4	.4	2.7	66.5	33.5	224
06009	14.9	.9	2.3	6.3	17.2	19.9	4.5	.9	.0	.9	67.9	32.1	221
12015	22.7	.0	.0	4.7	10.7	15.3	6.0	.7	2.0	.7	62.7	37.3	150
18021	22.1	.0	2.9	3.7	15.4	22.8	3.7	.7	.7	.7	72.8	27.2	136
TOT	132	3	12	43	109	138	35	5	5	10	492	239	731
PCT	18.1	.4	1.6	5.9	14.9	18.9	4.8	.7	.7	1.4	67.3	32.7	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	11.9	4.1	3.7	14.1	19.7	46.5	269
06009	11.9	4.6	5.6	15.1	22.8	40.0	285
12015	11.7	5.2	5.6	12.6	30.3	34.6	231
18021	9.9	5.7	8.9	17.9	27.4	30.7	212
TOT	114	48	57	148	246	364	997
PCT	11.4	4.8	5.7	14.8	24.7	36.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 CL	<1000 CL	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	15.5	20.9	37.7	30.9	31.4	220
06009	14.8	19.9	37.0	33.8	29.2	216
12015	22.8	26.2	38.6	28.3	33.1	145
18021	23.3	28.6	41.4	33.8	24.8	133
TOT	130	165	274	227	213	714
PCT	18.2	23.1	38.4	31.8	29.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	1.4	.0	.0	.0	2	1.4
47/44	.0	.0	.0	.0	.7	1.4	.7	1.4	6	4.1
50/39	.0	.0	.0	.0	2.7	6.1	8.8	10.8	42	28.4
53/34	.0	.0	.7	2.7	4.7	3.4	18.2	18.9	72	48.6
56/29	.0	.0	.0	.0	3.4	3.4	2.0	8.8	26	17.6
TOTAL	0	0	1	4	19	21	44	59	148	100.0
PCT	.0	.0	.7	2.7	12.8	14.2	29.7	39.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.5	.0	.0	.0	.0	.0	.7	.2	.0	.0
.5	.2	.0	.7	.7	1.4	.7	.0	.0	.0
3.0	2.7	1.7	1.4	4.7	5.6	8.1	1.2	.0	.0
6.3	2.2	3.5	4.6	6.3	12.0	5.9	7.9	.0	.0
2.7	1.4	.5	.8	.0	.2	2.7	9.3	.0	.0
13.0	6.4	5.7	7.4	11.7	19.1	18.1	18.6	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	46	45	41	34	27	23	22	33.9	253
06009	45	43	41	34	29	23	23	34.4	268
12015	43	40	38	32	25	19	19	32.0	222
18021	47	39	37	32	25	23	20	31.9	201
TOT	47	43	39	34	26	23	19	33.2	944

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.0	16.0	10.0	30.0	40.0	84	50		
06009	.0	4.0	10.0	22.0	30.0	34.0	83	50		
12015	.0	.0	10.7	10.7	32.1	46.4	86	28		
18021	.0	4.5	13.6	13.6	27.3	40.9	83	22		
TOT	0	5	19	22	45	59	84	150		

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974

APRIL

AREA 0023 ONEKOTAN ISLAND SE
48.3N 154.8E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.1	.1		2	.0	.3
9/10	.0	.0	.0	.0	.0	.7	.1		6	.0	.8
7/8	.0	.0	.0	.0	.0	.5	1.6	.1	17	.4	1.9
6	.0	.0	.0	.0	.0	.9	.3	.1	10	.3	1.1
5	.0	.0	.0	.0	.4	3.7	.8	.0	37	.9	4.0
4	.0	.0	.0	.0	.8	3.6	.3	.0	35	1.1	3.6
3	.0	.0	.0	.3	1.7	1.3	.0	.0	25	.5	2.8
2	.0	.0	.0	.5	6.3	3.7	.0	.0	80	1.1	9.5
1	.0	.0	.0	1.3	4.2	.4	.0	.0	45	.7	5.3
0	.0	.0	.0	4.4	9.3	.4	.0	.0	106	1.2	12.8
-1	.0	.0	.1	2.2	3.0	.3	.0	.0	43	.5	1.2
-2	.0	.0	.5	7.8	4.9	.3	.0	.0	102	1.5	12.0
-3	.0	.0	.8	2.4	1.2	.5	.0	.0	37	.4	4.5
-4	.0	.0	1.6	5.4	2.0	.3	.0	.0	70	.8	8.5
-5	.0	.0	3.2	2.6	.9	.0	.0	.0	51	.5	6.2
-6	.0	.0	.8	.4	.1	.0	.0	.0	10	.0	1.3
-7/-8	.0	.1	2.4	1.2	.4	.0	.0	.0	31	.0	4.1
-9/-10	.0	.8	1.2	.4	.1	.0	.0	.0	19	.3	2.2
-11/-13	.3	1.3	1.3	.1	.1	.0	.0	.0	24	.4	2.8
-14/-16	.0	.3	.1	.0	.0	.0	.0	.0	3	.0	.4
-17/-19	.0	.3	.0	.0	.0	.0	.0	.0	2	.0	.3
-20/-22	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	22	91	220	269	120	28	4	756	79	677
PCT	.3	2.9	12.0	29.1	35.6	15.9	3.7	.5	100.0	10.4	89.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.0	.0	.0	.0	.0	.0	.0	.4	.3	.0	.0	.0	.7
1-2	.0	.5	.6	.0	.0	.0	1.1	.0	.8	.9	.0	.0	.0	1.7
3-4	.0	.0	1.6	.4	.0	.0	2.0	.0	.0	1.6	.2	.0	.0	1.8
5-6	.0	.2	.8	.7	.0	.0	1.7	.0	.0	.7	.4	.2	.0	1.3
7	.0	.0	1.4	.7	.2	.0	2.3	.0	.0	.1	.9	.1	.0	1.1
8-9	.0	.0	.4	1.0	.0	.0	1.3	.0	.0	.4	.3	.0	.0	.7
10-11	.0	.0	.0	.6	.2	.0	.7	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.7	4.9	3.9	.3	.0	10.3	.0	1.3	4.3	1.9	.3	.0	7.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.4	.2	.0	.0	.0	.6	.0	.7	.2	.0	.0	.0	.9
1-2	.0	1.0	.6	.0	.0	.0	1.6	.0	.3	.8	.0	.0	.0	1.1
3-4	.0	.4	1.1	.2	.0	.0	1.7	.0	.5	1.0	.6	.0	.0	2.1
5-6	.0	.0	.4	.4	.2	.0	1.0	.0	.3	.2	.4	.1	.0	1.0
7	.0	.0	.4	.2	.0	.0	.6	.0	.0	.1	.7	.2	.0	1.0
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.7	.2	.0	1.0
10-11	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.7	.2	.0	.9
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.6	.0	.0	.8
13-16	.0	.0	.2	.2	.2	.0	.5	.0	.0	.1	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	3.0	1.6	.3	.0	6.7	.0	1.7	2.6	4.3	.8	.0	9.4

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0023 ONEKUTAH ISLAND SE
48.5N 154.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.8	.0	.0	.0	.0		.8	.2	.3	.2	.0	.0	.0		.8
1-2	.0	.0	2.1	.0	.0	.0		2.1	.0	2.8	1.1	.0	.0	.0		3.9
3-4	.0	.6	1.5	.6	.0	.0		2.7	.0	.9	3.1	1.1	.0	.0		3.1
5-6	.0	.2	1.1	.4	.0	.0		1.7	.0	.0	1.7	.7	.0	.0		2.4
7	.0	.0	.8	.4	.0	.0		1.2	.0	.0	.6	1.2	.0	.0		1.8
8-9	.2	.0	.2	.4	.2	.0		1.0	.1	.0	.2	.0	.2	.0		.5
10-11	.0	.0	.0	.4	.0	.2		.6	.0	.0	.2	1.0	.1	.1		1.3
12	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.2	.2	.0	.4		.4	.0	.0	.0	.3	.0	.0		.3
17-19	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.5	.0	.0		.5
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	1.6	5.8	2.8	.6	.2		11.2	.3	4.0	7.2	4.8	.3	.1		16.6

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	1.1	.2	.0	.0	.0		1.5	.0	.4	.0	.0	.0	.0		.4	
1-2	.2	.6	1.5	.0	.0	.0		2.3	.0	.3	1.2	.0	.0	.0		1.5	
3-4	.0	1.0	2.4	.4	.0	.0		3.8	.0	.3	2.7	.1	.0	.0		3.1	
5-6	.0	.0	2.8	.6	.0	.0		3.4	.0	.0	1.4	.5	.0	.0		1.9	
7	.0	.0	2.1	1.3	.4	.0		3.8	.0	.0	.8	1.3	.3	.0		2.4	
8-9	.0	.2	.0	.4	.0	.0		.7	.0	.0	.3	.3	.2	.0		.8	
10-11	.0	.0	.4	.8	.6	.0		1.9	.0	.2	.5	.8	.1	.0		1.6	
12	.0	.0	.0	.6	.2	.0		.7	.0	.0	.2	.6	1.0	.0		1.7	
13-16	.0	.0	.4	.6	.0	.0		1.0	.0	.0	.0	.6	.9	.0		1.5	
17-19	.0	.0	.0	.4	.2	.0		.6	.0	.0	.0	.2	.2	.0		.4	
20-22	.0	.0	.0	.2	.2	.0		.4	.0	.0	.0	.2	.2	.0		.4	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.2	.0		.2	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.2	.0		.2	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.4	2.8	9.9	5.3	1.6	.0		20.1	.0	1.3	7.1	4.7	3.1	.0		16.1	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DMS
<1	2.7	4.3	1.1	.0	.0	.0	8.1	
1-2	.2	6.3	8.8	.0	.0	.0	15.3	
3-4	.0	3.6	15.1	3.6	.0	.0	22.2	
5-6	.0	.7	9.0	4.3	.4	.0	14.4	
7	.0	.0	6.3	6.7	1.1	.0	14.2	
8-9	.2	.2	1.6	3.4	.9	.0	6.3	
10-11	.0	.2	1.6	4.5	1.1	.2	7.6	
12	.0	.0	.4	2.2	1.1	.0	3.8	
13-16	.0	.0	.9	2.7	1.1	.0	4.7	
17-19	.0	.0	.0	1.3	.7	.0	2.0	
20-22	.0	.0	.0	.4	.4	.0	.9	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.1	15.3	44.7	29.2	7.4	.2	100.0	445

PERIOD: (OVER-ALL) 1952-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	4.8	8.3	5.4	4.7	1.3	1.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	188	4
6-7	.0	.6	3.0	6.0	4.4	2.8	2.3	1.6	.7	.3	.3	.0	.1	.0	.0	.0	.0	.0	.0	155	7
8-9	.0	.1	.7	1.9	4.0	2.3	1.9	1.3	2.7	.7	.3	.0	.1	.0	.0	.0	.0	.0	.0	112	9
10-11	.0	.6	.7	.3	.6	.6	.4	.4	.7	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	34	9
12-13	.0	.0	.9	.6	.7	.4	.6	.1	.4	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	28	9
>13	.0	.0	.0	.3	.4	.4	.4	.1	1.0	.0	.3	.4	.0	.0	.0	.0	.0	.0	.0	24	13
INDEX	1.6	2.1	5.4	3.3	4.0	1.6	1.7	1.0	.9	.6	.7	.1	.0	.0	.0	.0	.0	.0	.0	161	6
TOTAL	17	58	133	124	132	66	58	34	46	13	12	4	5	0	0	0	0	0	0	702	7
PCT	2.4	8.3	18.9	17.7	18.8	9.4	8.3	4.8	6.6	1.9	1.7	.6	.7	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1874-1974AREA 0023 ONEKOTAN ISLAND SE
48.5N 154.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	PRPL	FRZG PCPN	SNOW	OTHER FRZG PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	5.3	.0	1.6	.0	.0	6.9	.0	.0	26.3	3.2	.0	.0	63.6
NE	5.8	.9	4.7	.0	4.2	.0	.0	14.7	4.7	.0	30.2	.0	.0	.0	50.3
E	10.3	.0	2.8	.0	2.8	.0	.0	14.7	2.2	.0	45.6	.8	.0	1.1	35.6
SE	13.8	1.3	7.6	.0	2.0	.0	.0	24.7	1.6	.0	50.7	3.0	1.3	.0	18.8
S	14.3	.0	5.9	.0	1.1	.0	.0	21.3	.8	.0	35.8	1.1	.0	.0	41.0
SW	4.4	.9	3.9	.0	1.4	.0	.0	10.6	.2	.0	28.6	1.8	.0	1.8	56.9
W	.8	.0	4.1	.0	.6	.0	.0	5.5	2.1	.0	17.7	2.3	.6	.8	71.0
NW	.9	.9	.7	.0	3.7	.0	.0	6.1	2.0	.0	24.4	.2	.2	.0	67.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.3	.0	.0	.0	.0	.0	.0	5.3	.0	.0	42.1	2.6	5.3	.0	44.7
TOT PCT	5.9	.5	3.9	.0	2.1	.0	.0	12.2	1.7	.0	31.8	1.5	.5	.5	51.8
TOT OBS	811														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG SNOW	NO SIG WEA	
0000	4.3	.8	3.6	.0	2.4	.0	.0	10.3	.8	.0	30.0	2.4	.4	.8	55.3	
0600	6.1	.5	2.0	.0	2.0	.0	.0	10.6	2.0	.0	34.3	1.5	.5	.0	51.0	
1200	5.8	.0	4.9	.0	2.7	.0	.0	13.3	2.7	.0	26.7	.4	.4	.9	55.6	
1800	7.8	.7	5.9	.0	.7	.0	.0	15.0	2.0	.0	36.6	1.3	.7	.0	44.4	
TOT PCT	5.8	.5	4.0	.0	2.1	.0	.0	12.1	1.8	.0	31.4	1.4	.5	.5	52.4	
TOT OBS:	829															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.7	3.6	3.4	.2	.0	.0	8.0	11.3	6.5	9.6	4.7	11.1	7.3	8.8	10.8	7.8			
NE	1.0	6.8	7.3	2.9	.0	.0	18.1	13.3	20.4	17.4	15.0	18.8	19.4	17.8	16.9	18.8			
E	.2	5.0	4.0	1.6	.1	.0	10.9	13.1	11.6	7.8	12.5	11.4	9.5	10.5	13.1	11.0			
SE	.4	5.0	2.0	1.3	.0	.0	8.7	12.1	7.9	11.6	7.4	14.8	8.3	9.5	5.2	6.5			
S	.4	4.7	4.0	1.3	.2	.0	10.7	13.1	10.6	13.9	11.1	6.2	9.9	12.0	6.4	16.6			
SW	1.5	3.8	5.0	1.5	.1	.0	12.0	13.1	13.4	9.1	17.4	9.3	12.1	8.0	16.5	6.2			
W	.7	4.6	5.8	2.7	.2	.0	14.2	14.5	14.1	13.6	15.4	9.6	18.7	13.8	10.6	14.3			
NW	1.5	6.1	4.7	1.0	.3	.0	13.5	11.5	12.3	15.9	13.3	15.1	11.4	14.8	10.6	17.5			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	3.9						3.9	.0	3.3	1.0	3.3	3.7	3.4	5.0	10.3	1.3			
TOT OBS	90	347	318	111	8	0	874		151	99	122	81	147	100	97	77			
TOT PCT	10.3	39.7	36.4	12.7	.9	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	1.9	4.1	2.1	.0	.0		8.0	11.3	7.7	7.3	7.9	8.5		
NE	4.0	8.7	4.0	1.4	.0		18.1	13.3	19.2	16.5	18.7	17.5		
E	2.7	5.0	2.5	.7	.0		10.9	13.1	10.1	12.1	9.9	12.2		
SE	2.5	4.0	1.3	.8	.0		8.7	12.1	9.4	10.3	8.8	5.7		
S	2.3	5.5	2.4	.5	.0		10.7	13.1	11.9	9.1	10.7	10.9		
SW	3.1	5.5	2.9	.5	.0		12.0	13.1	11.7	14.2	10.4	11.9		
W	2.6	6.2	4.0	1.3	.0		14.2	14.5	13.9	13.1	16.7	12.2		
NW	3.9	6.2	3.1	.4	.0		13.5	11.5	13.7	14.0	12.8	13.6		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	3.9						3.9	.0	2.4	3.4	4.0	6.3		
TOT OBS	235	395	195	49	0	874		12.4	250	203	247	174		
TOT PCT	26.9	45.2	22.3	5.6	0		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1875-1974

MAY

AREA 0023 ONEKOTAN ISLAND SE
48.9N 154.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOOR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0603	2.4	8.4	36.8	38.4	13.6	.4	.0	12.7	100.0	250
06109	3.4	5.4	38.4	35.5	16.7	.0	.0	12.8	100.0	203
12015	4.0	6.5	40.9	36.4	10.5	1.6	.0	12.2	100.0	247
18021	6.3	4.0	43.1	34.5	9.8	1.7	.0	11.7	100.0	174
TOT	34	36	347	318	111	8	0	12.4		874
PCT	3.9	6.4	39.7	36.4	12.7	.9	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.4	1.1	4.5		7.1
NE	.8	.4	.0	10.7		7.3
E	.0	.0	.4	9.4		7.4
SE	.2	.0	.4	6.9		7.6
S	.7	.2	1.7	9.2		7.2
SW	2.2	.8	3.7	10.7		6.5
W	1.6	1.5	2.7	10.6		6.6
NW	2.9	1.1	3.3	5.9		5.6
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.4	3.6		6.7
TOT OBS	45	21	64	318	448	6.8
TOT PCT	10.0	4.7	14.3	71.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NM >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.2	.7	.2	.4	1.5	1.3	.2	.0	.2	.0	1.0	
NE	2.0	.7	.0	1.5	3.9	2.1	1.3	.2	.0	.2	1.5	
E	4.9	.0	.4	.4	1.7	2.6	.0	.0	.0	.0	1.0	
SE	3.1	.0	.7	.2	.9	1.1	.2	.0	.3	.0	.3	
S	4.6	.2	.0	1.2	2.5	.6	.6	.0	.2	.0	2.0	
SW	4.1	.0	.2	1.5	4.2	2.2	.6	.0	.0	.2	3.9	
W	2.8	.4	.0	1.9	3.3	3.1	.7	.0	.2	.0	3.9	
NW	1.6	.0	.2	1.3	2.0	2.3	1.0	.2	.5	.0	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.6	.0	.0	.0	.9	1.1	.0	.0	.2	.0	1.1	
TOT OBS	115	5	8	37	93	74	21	2	7	2	84	448
TOT PCT	25.7	1.1	1.8	8.3	20.8	16.5	4.7	.4	1.6	.4	18.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)	
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0		
>4500	1.1	1.8	1.8	2.0	2.0	2.0	2.0	2.0		
>4000	1.3	2.0	2.2	2.4	2.4	2.4	2.4	2.4		
>3500	4.0	5.3	6.2	6.5	6.5	6.7	6.7	6.7		
>3000	10.9	19.4	22.0	22.3	22.9	23.4	23.4	23.4		
>2500	15.4	32.3	40.8	42.5	43.4	43.9	43.9	43.9		
>2000	16.5	37.6	48.1	50.6	51.9	52.3	52.3	52.3		
>1500	16.5	37.9	48.6	51.4	53.7	54.1	54.1	54.1		
>1000	16.5	38.5	49.2	52.3	54.6	55.2	55.2	55.2		
>500	16.7	40.3	54.1	59.2	61.9	68.8	78.2	80.4		
TOTAL	75	161	243	266	278	309	351	361		

TOTAL NUMBER OF OBS: 449

PCT FREQ NM <5/8 19.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.7	4.1	4.1	2.0	2.9	1.6	5.7	6.6	43.4	23.8	488

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1875-1974

MAY

AREA 0023 ONEKOTAN ISLAND SE
48.5N 154.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.6	.2	.2	.5	.3	.2	*	.0	.0	2.0	
	NN PCP	1.8	2.7	3.7	3.4	3.0	2.5	1.7	2.4	.0	1.6	22.5	
	TOT %	1.9	3.4	3.9	3.7	3.5	2.8	1.9	2.4	.0	1.6	24.5	
1/2<1	PCP	.1	.1	.5	.6	.5	.1	.0	.0	.0	.0	1.9	
	NN PCP	.7	.7	.4	.2	.7	.2	.1	.4	.0	.1	2.7	
	TOT %	.4	.8	.9	.8	.7	.3	.1	.4	.0	.1	4.6	
1<2	PCP	.0	.2	.2	.6	.3	.2	.1	.0	.0	.0	1.7	
	NN PCP	.2	.5	.4	.7	.5	.3	.4	.4	.0	.2	3.7	
	TOT %	.2	.8	.6	1.3	.8	.5	.5	.4	.0	.2	5.5	
2<5	PCP	.2	.4	.7	.7	.6	.5	.2	.4	.0	.1	3.5	
	NN PCP	.8	1.3	1.0	.9	1.8	1.1	1.6	.5	.0	.4	9.4	
	TOT %	1.1	1.8	1.2	1.6	2.4	1.6	1.8	.9	.0	.5	12.9	
5<10	PCP	.2	.5	.4	.2	.4	.7	.2	.4	.0	.0	2.6	
	NN PCP	2.7	3.8	1.8	.7	1.4	3.8	4.8	3.3	.0	.9	23.2	
	TOT %	3.0	4.3	2.2	1.0	1.8	4.0	5.0	3.8	.0	.9	25.8	
10+	PCP	.0	.1	.1	*	.2	.7	.0	.0	.0	.1	.6	
	NN PCP	1.8	2.3	2.0	1.0	2.1	3.9	5.7	6.3	.0	1.2	26.1	
	TOT %	1.8	2.3	2.1	1.0	2.3	4.1	5.7	6.3	.0	1.4	26.7	
TOT OBS													805
TOT PCT		7.5	13.4	10.9	9.3	11.5	13.4	15.0	14.3	.0	4.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.6	.1	.1	.1	.7	.5	.8	.0	1.3	4.5	
	4-10	1.1	3.0	1.7	1.7	1.8	1.0	.7	2.0	.0		13.0	
	11-21	1.1	2.7	1.6	.8	.9	1.0	.4	.7	.0		9.1	
	22+	.1	2.4	1.0	.8	.7	.1	.2	*	.0		5.3	
	TOT %	2.5	8.8	4.4	3.4	3.5	2.8	1.8	3.5	.0	1.3	31.9	
1/2<1	0-3	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	4-10	.1	.6	.4	.1	.3	.1	.1	.2	.0		1.9	
	11-21	.1	.1	.4	.4	.3	.1	.0	.2	.0		1.5	
	22+	.0	.0	.1	.1	.1	*	.0	.0	.0		.4	
	TOT %	.4	.7	.8	.5	.7	.3	.1	.5	.0	.0	4.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2	.4	
	4-10	.2	.3	.2	1.0	.5	.3	.3	.1	.0		3.2	
	11-21	.0	.4	.0	.3	.2	.3	.6	.1	.0		1.8	
	22+	.1	.1	.4	.1	.2	.0	.0	.2	.0		1.1	
	TOT %	.3	.8	.6	1.4	.9	.6	1.1	.4	.0	.2	6.3	
2<5	0-3	.0	.0	.0	.0	.0	.2	.1	.3	.0	.5	1.1	
	4-10	.6	1.0	.6	1.0	.5	.3	.7	.6	.0		5.3	
	11-21	.7	1.3	.6	.4	1.3	.6	.9	.2	.0		6.1	
	22+	.0	.0	.1	*	.3	.6	.6	.2	.0		1.9	
	TOT %	1.3	2.3	1.3	1.5	2.1	1.8	2.3	1.3	.0	.5	14.3	
5<10	0-3	.1	.1	.1	.1	.2	.1	.0	.1	.0	.7	1.4	
	4-10	1.2	1.4	.9	.4	.6	.8	1.2	1.0	.0		7.5	
	11-21	1.0	1.8	.7	*	.6	1.8	2.1	1.6	.0		9.5	
	22+	.1	.4	.0	.2	.0	.6	1.0	.4	.0		2.7	
	TOT %	2.3	3.7	1.7	.7	1.4	3.2	4.3	3.0	.0	.7	21.1	
10+	0-3	.4	.1	.0	.1	.1	.4	.1	.3	.0	1.1	2.5	
	4-10	.5	.7	1.1	.6	1.1	1.3	1.4	2.3	.0		9.0	
	11-21	.5	1.2	.6	.2	.6	1.2	2.0	2.1	.0		8.4	
	22+	.0	.2	.2	.0	.2	.4	1.2	.3	.0		2.5	
	TOT %	1.4	2.2	1.9	.9	2.0	3.3	4.7	4.9	.0	1.1	22.4	
TOT OBS													853
TOT PCT		8.1	18.3	10.8	8.5	10.6	12.0	14.3	13.7	.0	3.8	100.0	

MAY

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1877-1974AREA 0023 ONEKOTAN ISLAND SE
48.5N 154.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	21.5	.6	1.8	12.3	18.4	14.7	4.9	1.2	1.8	.0	77.3	22.7	163
06009	25.4	1.7	2.5	9.9	19.5	21.2	6.8	.0	.8	.0	83.9	16.1	118
12015	26.9	.0	1.9	4.8	22.1	12.5	3.8	.0	2.9	1.9	76.9	23.1	104
18021	31.2	2.6	.0	7.8	23.4	18.2	1.3	.0	.0	.0	84.4	15.6	77
TOT	117	5	8	38	94	76	21	2	7	2	370	92	462
PCT	25.3	1.1	1.7	8.2	20.3	16.5	4.5	.4	1.5	.4	80.1	19.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	27.6	5.2	4.9	14.8	23.1	24.8	290
06009	32.7	3.5	4.9	10.6	23.5	24.8	226
12015	31.5	3.4	7.5	12.7	22.1	22.8	267
18021	31.8	4.7	9.4	16.7	19.8	17.7	192
TOT	299	41	62	133	217	223	975
PCT	30.7	4.2	6.4	13.6	22.3	22.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	20.9	27.8	51.9	29.7	18.4	158
06009	25.6	29.9	44.4	41.9	13.7	117
12015	26.7	29.7	51.5	28.7	19.8	101
18021	31.5	37.0	60.3	27.4	12.3	73
TOT	113	136	230	145	74	449
PCT	25.2	30.3	51.2	32.3	16.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	1.2	.6	.6	.0	4	2.5
40/44	.0	.0	.0	.0	.6	.6	11.2	5.6	29	18.0
35/39	.0	.0	.0	.0	1.2	5.0	21.1	38.5	106	63.8
30/34	.0	.0	.0	.0	.0	1.2	3.7	7.5	20	12.4
25/29	.0	.0	.0	.0	.0	.0	1.2	.0	2	1.2
TOTAL	0	0	0	0	9	12	61	83	161	100.0
PCT	.0	.0	.0	.0	3.1	7.5	37.9	51.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CAL
.0	.0	1.1	.2	.0	.6	.6	.0	.0	.0
.6	1.6	2.0	1.7	6.7	3.6	.0	1.9	.0	.0
5.6	8.5	7.0	5.4	5.0	9.5	14.0	10.2	.0	.0
.0	.6	.6	.0	.0	1.1	7.3	1.6	.0	1.2
.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0
6.2	10.7	10.7	7.3	11.6	14.8	21.9	14.9	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	50	46	45	39	34	32	29	38.6	282
06009	50	46	45	37	32	30	28	38.2	216
12015	46	44	41	36	32	28	25	35.7	264
18021	50	45	41	36	32	30	30	36.5	194
TOT	50	46	44	37	32	29	25	37.3	956

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	4.7	7.8	43.8	43.8	89	64
06009	.0	.0	2.6	7.7	49.6	46.2	89	39
12015	.0	.0	.0	2.9	35.3	61.8	91	34
18021	.0	.0	4.0	12.0	20.0	64.0	90	25
TOT	0	0	5	12	62	83	89	162

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1874-1974

MAY

AREA 0023 ONEKOTAN ISLAND SE
48.5N 154.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	WD FOG
14/16	.0	.0	.0	.0	.1	.0	.3	3	.0	.4
11/13	.0	.0	.0	.0	.1	.6	.3	7	.1	.8
9/10	.0	.0	.0	.0	.6	.8	.0	10	.0	1.4
7/8	.0	.0	.0	1.1	1.8	1.1	.1	30	1.7	2.3
6	.0	.0	.0	1.4	1.7	.0	.0	22	1.1	1.9
5	.0	.0	.0	3.2	3.3	.1	.0	49	1.7	5.1
4	.0	.0	1.0	8.7	2.3	.1	.0	89	4.2	8.2
3	.0	.0	1.0	2.9	1.1	.0	.0	36	.8	4.2
2	.0	.1	8.2	8.7	1.0	.1	.0	131	6.0	12.2
1	.0	.1	1.8	3.3	.0	.0	.0	38	1.2	4.0
0	.0	.8	11.2	5.0	.4	.0	.0	126	6.9	10.5
-1	.0	.3	2.8	.7	.0	.0	.0	27	1.1	2.6
-2	.0	1.7	3.7	2.2	.3	.0	.0	57	2.8	5.1
-3	.0	1.8	.5	.3	.0	.0	.0	21	.7	2.2
-4	.0	1.9	2.1	.6	.0	.0	.0	33	1.8	2.8
-5	.3	1.1	.8	.0	.0	.0	.0	16	.3	1.9
-6	.1	.3	.4	.0	.1	.0	.0	7	.1	.8
-7/-8	.4	.3	.3	.6	.0	.0	.0	11	.6	1.0
-9/-10	.0	.3	.0	.3	.0	.0	.0	4	.1	.4
-11/-13	.0	.1	.0	.1	.0	.0	.0	2	.1	.1
-14/-16	.0	.0	.3	.0	.0	.0	.0	2	.0	.3
TOTAL	6	64	248	282	95	21	5	721	226	495
PLT	.8	8.9	34.4	39.1	13.2	2.9	.7	100.0	31.3	68.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N										NE									
HGT	1-3	4-10	11-21	22-33	34-47	48+	PLT			1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	.0	.4	.0	.0	.0	.0	.4			.7	1.2	.0	.0	.0	.0	1.9			
1-2	.0	.6	.4	.0	.0	.0	.9			.0	1.7	1.9	.0	.0	.0	3.6			
3-4	.0	.0	.3	.0	.0	.0	.3			.0	.0	1.8	.0	.0	.0	1.8			
5-6	.0	.3	1.3	.0	.0	.0	1.6			.0	.4	1.3	.1	.0	.0	1.8			
7	.0	.0	.4	.0	.0	.0	.4			.0	.0	1.1	.0	.0	.0	1.1			
8-9	.0	.0	.4	.0	.0	.0	.4			.0	.0	.0	.7	.0	.0	.7			
10-11	.0	.0	.6	.0	.0	.0	.6			.0	.0	.2	.4	.0	.0	.6			
12	.0	.0	.0	.4	.0	.0	.4			.0	.0	.0	.5	.0	.0	.5			
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.0	1.2	3.3	.4	.0	.0	4.9			.7	3.2	6.3	1.7	.0	.0	11.9			

E										SE									
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	.0	1.0	.6	.0	.0	.0	1.7			.0	.8	.5	.0	.0	.0	1.3			
1-2	.0	1.0	.3	.0	.0	.0	1.3			.0	2.0	.2	.0	.0	.0	2.2			
3-4	.0	.6	1.2	.4	.0	.0	2.2			.0	.2	1.3	.0	.0	.0	1.5			
5-6	.0	.0	2.0	.3	.0	.0	2.3			.0	.0	.5	.1	.0	.0	.6			
7	.0	.0	.7	.0	.0	.0	.7			.0	.0	.4	.8	.0	.0	1.2			
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.7	.0	.0	.7			
10-11	.0	.0	.3	.0	.0	.0	.3			.0	.4	.0	.1	.0	.0	.5			
12	.0	.0	.0	.3	.0	.0	.3			.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.4	.4	.4	.0	1.1			.0	.0	.0	.4	.0	.0	.4			
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.0	2.7	5.6	1.3	.4	.0	9.9			.0	3.4	2.8	2.1	.0	.0	8.3			

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0023 ONEKUTAN ISLAND SE
48.5N 154.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.9	.0	.0	.0	.0		.9	.7	1.7	.0	.0	.0	.0		2.4
1-2	.4	1.0	2.3	.0	.0	.0		3.7	.0	1.6	.5	.0	.0	.0		2.0
3-4	.0	.6	2.2	.4	.0	.0		3.1	.0	.5	3.3	.4	.0	.0		4.2
5-6	.0	.0	1.0	.6	.0	.0		1.7	.4	.4	3.3	.9	.0	.0		5.0
7	.0	.0	.3	.6	.0	.0		.9	.0	.0	.8	1.5	.0	.0		2.3
8-9	.0	.0	.0	.4	.0	.0		.4	.0	.0	.8	.7	.0	.0		1.6
10-11	.0	.0	.4	.6	.0	.0		1.0	.0	.0	.1	.4	.0	.0		.5
12	.0	.0	.0	.0	.3	.0		.3	.0	.0	.0	.0	.1	.0		.1
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	7.5	6.2	2.7	.3	.0		12.0	1.1	4.1	8.9	3.9	.1	.0		18.1

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.7	.4	.0	.0	.0		2.0	.0	.5	.0	.0	.0	.0		.5
1-2	.0	2.3	1.0	.0	.0	.0		3.3	.4	2.4	.8	.0	.0	.0		3.6
3-4	.0	.0	1.8	1.8	.0	.0		3.5	.0	.7	.4	.1	.0	.0		1.2
5-6	.0	.6	4.0	.6	.0	.0		5.2	.0	.2	.6	.4	.4	.0		1.6
7	.0	.0	.6	1.3	.0	.0		1.7	.0	.0	1.2	.5	.0	.0		1.7
8-9	.0	.0	.3	2.3	.0	.0		2.6	.0	.0	.4	.6	.4	.0		1.4
10-11	.0	.0	.9	.4	.0	.0		1.3	.0	.0	.1	.0	.0	.0		.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	4.6	9.0	6.0	.0	.0		19.6	.4	3.8	3.5	1.6	.7	.0		94.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.7	8.1	1.5	.0	.0	.0	16.3	
1-2	.7	12.6	7.4	.0	.0	.0	20.7	
3-4	.0	2.6	12.2	3.0	.0	.0	17.8	
5-6	.4	1.9	14.1	3.0	.4	.0	19.6	
7	.0	.0	5.6	4.4	.0	.0	10.0	
8-9	.0	.0	1.9	5.6	.4	.0	7.8	
10-11	.0	.4	2.6	1.9	.0	.0	4.8	
12	.0	.0	.0	1.1	.4	.0	1.5	
13-16	.0	.0	.4	.7	.4	.0	1.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.8	25.6	45.6	19.6	1.9	.0	100.0	270

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	6.1	9.4	8.2	2.1	1.9	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	125
6-7	.0	.7	4.6	5.4	3.4	3.1	1.9	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96
8-9	.2	.5	.2	2.6	3.4	3.5	2.8	.7	1.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65
10-11	.0	.5	.0	1.2	1.4	.0	.2	.0	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21
12-13	.0	.0	1.4	.5	.7	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14
14-15	.0	.0	.0	.0	.7	.0	.5	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	6
16-17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
18-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
20-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
TOTAL	5.4	3.1	5.4	2.8	3.1	.5	1.2	.5	.2	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	425
PCT	6.6	10.8	21.6	21.4	15.1	9.6	6.6	1.6	4.7	1.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1907-1974

JUNE

AREA 0023 ONEKOTAN ISLAND SE
48.3N 153.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	1.6	.0	3.1	.0	.0	.0	.0	4.7	1.6	.0	46.1	.0	.0	.0	47.6
NE	9.5	.0	2.2	.0	.0	.0	.0	11.8	.6	.0	39.8	.0	1.4	.0	46.5
E	11.4	.8	4.9	.0	.0	.0	.0	17.2	3.8	.0	49.6	1.7	1.3	.0	26.5
SE	14.2	.8	8.7	.0	.0	.0	.0	23.8	1.7	.0	51.0	1.7	.2	.0	21.7
S	9.0	.0	3.0	.0	.0	.0	.0	11.0	.0	.0	65.3	3.8	.0	.0	20.0
SW	1.8	.0	1.4	.0	.0	.0	.0	3.2	.0	.0	53.7	3.2	.0	.0	34.9
W	3.7	.0	3.7	.0	.0	.0	.0	5.5	.7	.0	43.3	1.8	2.5	.7	45.4
NW	.9	.0	.9	.0	.0	.0	.0	1.6	.2	.0	45.9	.9	.2	.2	50.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.2	.0	.0	.0	.0	.0	.0	4.2	.0	.0	54.2	4.2	.0	.0	37.5
TOT PCT	6.9	.2	3.6	.0	.0	.0	.0	10.4	1.1	.0	49.5	1.7	.7	.1	36.4
TOT OBS:	806														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PLPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	5.5	.4	3.1	.0	.0	.0	.0	8.6	1.2	.0	48.2	2.7	1.2	.0	38.0
06009	6.6	.0	5.1	.0	.0	.0	.0	10.7	.5	.0	49.0	.5	.5	.5	38.3
12015	9.1	.0	3.0	.0	.0	.0	.0	12.1	1.5	.0	50.0	1.0	.5	.0	34.8
18021	6.7	.6	4.0	.0	.0	.0	.0	10.7	1.1	.0	50.3	2.3	.6	.0	35.0
TOT PCT TOT OBS:	6.8 826	.2	3.8	.0	.0	.0	.0	10.4	1.1	.0	49.3	1.7	.7	.1	36.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.6	3.7	2.9	.3	.0	.0		8.5	9.3		9.5	5.7	10.6	14.7	4.5	10.7	5.6	8.2
NE	1.1	3.4	4.3	1.4	.0	.0		10.2	12.7		10.5	12.3	9.4	4.4	8.2	11.0	14.7	9.8
E	1.6	5.8	4.1	1.2	.2	.0		12.9	11.7		15.5	11.0	11.5	13.8	14.1	10.5	16.4	11.4
SE	1.5	6.7	5.4	.4	.2	.0		14.3	10.9		10.7	16.7	12.7	22.5	8.8	17.8	5.8	20.4
S	1.3	6.9	3.5	.3	.0	.0		12.0	9.7		9.7	13.8	10.3	7.8	13.3	11.2	15.3	14.4
SW	1.1	5.6	3.2	.1	.0	.0		9.8	9.5		10.5	7.6	9.1	8.4	23.1	6.5	8.9	5.4
W	1.3	7.1	4.7	.7	.1	.0		13.9	10.2		17.7	14.6	16.1	10.3	12.2	14.5	11.9	11.4
NW	.7	10.0	4.3	.4	.0	.0		15.4	9.6		13.5	16.9	18.3	15.6	12.5	15.0	15.8	15.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8							2.8	.0		2.4	1.5	1.9	2.5	3.2	2.8	5.6	3.3
TOT OBS	107	405	267	39	5	0	823		10.2		124	132	104	80	94	107	90	92
TOT PCT	13.0	49.2	32.6	4.7	.6	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	3.6	3.9	.9	.1	.0		8.5	9.3	7.5	12.4	7.8	6.9
NE	2.8	4.6	2.2	.6	.0		10.2	12.7	11.4	7.2	9.7	12.2
E	3.6	6.2	2.2	.9	.0		12.9	11.7	13.2	12.5	12.2	13.9
SE	3.2	8.5	2.3	.3	.0		14.3	10.9	13.8	17.0	13.6	13.2
S	3.9	6.3	1.6	.2	.0		12.0	9.7	11.8	9.2	12.2	14.8
SW	3.8	4.4	1.6	.1	.0		9.8	9.5	9.0	8.8	14.3	7.1
W	4.6	7.6	1.0	.7	.0		13.9	10.2	16.1	13.6	13.4	11.7
NW	5.3	8.3	1.7	.8	.0		15.4	9.6	15.2	17.1	13.8	15.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.8						2.8	.0	2.0	2.2	3.0	4.4
TOT OBS	278	410	111	24	0	823		10.2	256	186	201	182
TOT PCT	33.8	49.8	13.5	2.9	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1907-1974

JUNE

TABLE 4

AREA 0023 ONEKOTAH ISLAND SE
48.5N 155.1E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.0	7.4	45.7	39.8	4.3	.8	.0	10.9	100.0	256
0600	2.2	7.6	50.0	36.4	3.8	.0	.0	10.5	100.0	184
1200	3.0	12.9	50.7	26.4	6.5	.5	.0	9.7	100.0	201
1800	4.4	13.7	51.6	24.7	4.4	1.1	.0	9.2	100.0	182
TOT	23	84	405	267	39	5	0	10.2		823
PCT	2.8	10.2	49.2	32.4	4.7	.6	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	.4	1.0	4.9		6.6
NE	1.1	.6	1.0	7.7		6.8
E	.7	.5	.8	14.1		7.5
SE	.3	.1	.6	11.5		7.8
S	.0	.7	1.0	10.9		7.5
SW	.6	.8	1.5	8.4		7.0
W	1.5	.5	1.8	11.2		6.9
NW	1.3	.5	1.5	8.0		6.8
VAR	.0	.0	.0	.0		.0
CALM	.8	.5	.0	2.6		5.9
TOT OBS	27	18	36	311	392	7.1
TOT PCT	6.9	4.6	9.2	79.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3999	7999	15999	31999	63999		
N	2.2	.0	.3	.2	1.1	1.8	.3	.0	.0	.0	1.1	
NE	4.4	.0	.2	1.1	1.6	.8	.3	.0	.3	.0	1.7	
E	6.4	.0	2.0	1.7	1.0	3.2	.0	.0	.3	.0	1.5	
SE	6.6	.5	.6	1.5	1.4	1.0	.5	.0	.0	.0	.4	
S	6.7	.0	.5	.7	2.3	.6	.4	.0	.2	.3	.9	
SW	3.8	.0	.0	1.1	1.6	2.4	.6	.0	.2	.3	1.3	
W	5.0	.3	.2	.6	4.7	1.0	.3	.3	.4	.0	2.4	
NW	2.9	.0	.1	1.6	2.2	2.0	.0	.3	.0	.0	2.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	1.8	.0	.0	.3	.3	.3	.0	.0	.0	.0	1.3	
TOT PCT	156	3	15	35	63	51	9	2	5	2	51	392
	39.8	.8	3.8	8.9	16.1	13.0	2.3	.5	1.3	.5	13.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.3	1.5	1.8	1.8	1.8	1.8	1.8	1.8
>6000	1.8	2.0	2.3	2.3	2.3	2.3	2.3	2.3
>5500	2.3	3.3	4.1	4.1	4.3	4.6	4.6	4.6
>5000	7.6	12.9	15.4	16.2	16.5	17.0	17.2	17.2
>4500	11.4	23.5	29.6	30.6	31.4	32.9	33.2	33.2
>4000	13.9	28.9	36.5	37.7	39.5	41.3	42.0	42.0
>3500	13.9	30.4	39.2	41.3	43.0	45.1	45.8	45.8
>3000	13.9	30.6	39.7	42.0	43.8	45.8	46.6	46.6
>2500	13.9	31.6	42.0	45.8	50.4	56.3	63.0	66.3
TOTAL	95	125	166	181	199	262	328	341

TOTAL NUMBER OF OBS: 395

PCT FREQ NH <5/8 13.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.0	.9	2.4	2.6	2.1	3.3	2.1	4.5	39.7	423

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1907-1974

JUNE

AREA 0023 ONEKOTAN ISLAND SE
48.5N 159.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	.4	.7	1.4	.4	.0	.2	.1	.0	.1	3.6	
	NN PCP	2.7	2.8	3.7	5.7	6.4	3.1	4.0	3.9	.0	1.4	35.7	
	TOT %	3.1	3.1	6.5	7.1	6.8	3.1	4.1	4.0	.0	1.5	39.3	
1/2<1	PCP	.0	.4	.2	.5	.5	.0	.5	.0	.0	.0	2.0	
	NN PCP	.2	.3	1.1	1.3	.7	.4	.2	.8	.0	.1	5.2	
	TOT %	.2	.7	1.2	1.8	1.2	.4	.7	.8	.0	.1	7.2	
1<2	PCP	.0	.2	.5	.8	.1	.0	.0	.0	.0	.0	1.6	
	NN PCP	.6	1.0	.8	.1	.6	.4	.7	.4	.0	.0	4.5	
	TOT %	.6	1.3	1.3	.9	.6	.4	.7	.4	.0	.0	6.1	
2<5	PCP	.0	.2	.9	.5	.3	.1	.0	.0	.0	.0	2.1	
	NN PCP	.8	1.0	1.2	.9	.5	1.0	1.5	.8	.0	.1	7.9	
	TOT %	.8	1.2	2.2	1.4	.8	1.1	1.5	.8	.0	.1	10.0	
5<10	PCP	.0	.1	.2	.2	.2	.2	.1	.0	.0	.0	1.0	
	NN PCP	1.4	2.2	1.3	1.4	1.6	1.7	3.4	4.0	.0	.4	17.5	
	TOT %	1.4	2.2	1.5	1.7	1.8	1.9	3.5	4.0	.0	.4	18.5	
10+	PCP	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.4	
	NN PCP	1.8	2.3	2.0	1.6	1.2	1.6	3.2	3.9	.0	.9	18.6	
	TOT %	1.8	2.5	2.0	1.7	1.2	1.6	3.2	4.0	.0	.9	19.0	
TOT OBS													802
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.6	.1	1.0	.9	.6	.8	.8	.5	.0	1.5	6.8	
	4-10	1.9	1.6	2.6	3.1	4.0	2.9	2.8	3.2	.0		22.2	
	11-21	1.0	1.0	2.1	2.5	2.1	.6	1.5	.9	.0		11.9	
	22+	.0	.4	.4	.3	.1	.1	.0	.3	.0		1.4	
	TOT %	3.5	3.1	6.2	6.7	6.8	4.4	5.2	4.8	.0	1.5	42.2	
1/2<1	0-3	.2	.3	.0	.3	.1	.1	.0	.0	.0	.0	1.0	
	4-10	.0	.0	.2	.5	.5	.2	.3	.8	.0		2.4	
	11-21	.1	.3	.7	.7	.5	.1	.0	.1	.0		2.5	
	22+	.0	.2	.2	.1	.1	.0	.3	.0	.0		1.0	
	TOT %	.3	.9	1.0	1.6	1.2	.4	.6	.9	.0	.0	6.9	
1<2	0-3	.1	.0	.4	.3	.1	.1	.1	.0	.0	.0	1.0	
	4-10	.1	.1	.7	.4	.2	.2	.5	.6	.0		2.8	
	11-21	.3	.4	.3	.4	.3	.1	.0	.0	.0		1.8	
	22+	.1	.3	.3	.0	.0	.0	.0	.0	.0		.6	
	TOT %	.6	.8	1.6	1.1	.5	.3	.6	.6	.0	.0	6.2	
2<5	0-3	.4	.2	.1	.0	.0	.0	.1	.0	.0	.1	1.0	
	4-10	.4	.3	1.0	1.1	.7	1.1	.9	.9	.0		6.6	
	11-21	.3	.4	.5	.9	.1	.3	.5	.5	.0		3.7	
	22+	.1	.3	.2	.0	.0	.0	.2	.0	.0		.9	
	TOT %	1.3	1.3	1.9	2.0	.8	1.5	1.8	1.4	.0	.1	12.1	
5<10	0-3	.2	.2	.0	.0	.2	.0	.1	.0	.0	.3	1.0	
	4-10	.3	.6	.3	.6	1.1	.7	1.3	2.2	.0		7.3	
	11-21	.7	1.0	.5	.6	.2	.9	1.4	1.5	.0		6.8	
	22+	.0	.0	.2	.0	.0	.0	.1	.1	.0		.5	
	TOT %	1.2	1.8	1.0	1.2	1.5	1.7	3.1	3.8	.0	.3	15.6	
10+	0-3	.1	.4	.1	.3	.3	.0	.1	.3	.0	.8	2.3	
	4-10	1.1	.9	1.2	.9	.4	.6	1.4	2.2	.0		8.7	
	11-21	.5	.9	.1	.3	.2	.8	1.5	1.5	.0		5.8	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	1.8	2.3	1.5	1.4	.8	1.5	3.0	3.9	.0	.8	16.9	
TOT OBS													793
TOT PCT													100.0

JUNE

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1907-1974AREA 0023 ONEKOTAN ISLAND SE
48.5N 155.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH $\geq 4/8$) AND
OCCURRENCE OF NH $\leq 5/8$ BY HOUR

MOON (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH $\leq 5/8$ ANY HGT	TOTAL OBS
00003	39.1	1.4	2.2	10.1	18.8	13.0	1.4	1.4	1.4	1.4	90.6	9.4	138
06009	43.1	.9	3.7	6.4	12.8	17.4	2.8	.0	2.8	.0	89.9	10.1	109
12015	42.2	.0	6.0	3.6	15.7	7.2	2.4	.0	.0	.0	77.1	22.9	83
18021	33.3	.0	3.8	15.4	16.7	12.8	2.6	.0	.0	.0	84.6	15.4	78
TOT	162	3	15	36	66	53	9	2	5	2	353	55	408
PCT	39.7	.7	3.7	8.8	16.2	13.0	2.2	.5	1.2	.5	86.5	13.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

MOON (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	40.6	6.4	5.3	12.5	16.7	18.5	281
06009	41.9	5.0	6.3	9.9	15.8	21.2	222
12015	38.6	9.0	10.8	13.0	15.2	13.5	223
18021	42.2	7.5	4.5	13.6	18.1	14.1	199
TOT	377	64	67	113	152	157	925
PCT	40.8	6.9	6.7	12.2	16.4	17.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH $\geq 4/8$) BY HOUR

MOON (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND 5+	NH $\leq 5/8$ AND 5+	TOTAL OBS
00003	39.7	48.9	66.4	23.7	9.9	131
06009	42.6	49.1	58.3	31.5	10.2	108
12015	43.0	55.7	69.6	10.1	20.3	79
18021	32.5	42.9	61.0	26.0	13.0	77
TOT	157	194	252	93	50	395
PCT	39.7	49.1	63.8	23.5	12.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.6	.6	1.1	1.1	2.3	.0	10	5.7
45/49	.0	.0	.0	.0	.0	3.2	6.3	8.0	34	19.5
40/44	.0	.0	.0	.6	.0	1.7	6.9	33.3	74	42.5
35/39	.0	.0	.0	.0	.0	.6	5.7	24.7	54	31.0
30/34	.0	.0	.0	.0	.0	.0	.0	1.1	2	1.1
TOTAL	0	0	1	2	15	37	117	174	174	100.0
PCT	.0	.0	.6	1.1	1.1	8.6	21.3	67.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	1.6	.0	1.0	.7	1.7	.6	.0	.0
1.4	3.6	1.7	3.4	1.1	.7	4.3	2.6	.0	.6
4.9	5.0	6.5	8.2	7.6	2.7	4.5	3.2	.0	.0
3.3	3.2	4.9	.7	2.4	3.2	6.0	6.2	.0	1.1
.0	.0	.0	.0	.0	.0	.4	.7	.0	.0
9.6	11.9	14.7	12.4	12.2	7.3	17.0	13.2	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

MOON (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	53	53	50	42	36	30	29	42.3	284
06009	54	53	49	41	36	34	34	41.8	219
12015	54	50	46	39	34	30	29	39.6	229
18021	52	48	46	39	34	30	30	39.8	203
TOT	55	52	48	41	36	30	29	41.0	935

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

MOON (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.6	.0	12.5	25.0	60.9	90	64
06009	.0	2.2	2.2	13.3	20.0	62.2	90	45
12015	.0	2.6	2.6	2.6	13.2	78.9	91	38
18021	.0	.0	.0	.0	25.9	74.1	92	27
TOT	0	3	2	15	37	117	91	174

JUNE

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1907-1974

TABLE 17

AREA 0023 ONEKOTAN ISLAND SE
48.3N 155.1EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	43 48	49 52	53 56	TOT	W FUG	WU FOG
14/16	.0	.0	.0	.0	.0	.0	.1	1	.1	.0
11/13	.0	.0	.0	.0	1.2	.8	.3	17	1.3	.9
9/10	.0	.0	.0	.7	1.6	.0	.1	18	.3	2.1
7/8	.0	.0	.1	1.2	3.7	.4	.3	43	2.5	3.1
6	.0	.0	.1	.8	.3	.3	.0	13	.5	1.2
5	.0	.0	.5	4.5	3.4	.3	.1	67	3.7	5.1
4	.0	.1	3.9	6.9	3.4	.0	.0	110	7.7	6.7
3	.0	.0	1.6	2.8	1.2	.0	.0	42	1.8	3.7
2	.0	1.7	5.5	6.4	1.2	.1	.0	114	8.4	6.6
1	.0	1.4	2.2	2.4	.0	.0	.0	46	1.8	4.2
0	.1	2.6	9.2	5.0	1.6	.1	.0	142	11.4	7.2
-1	.1	.1	2.2	1.6	.1	.0	.0	32	2.4	1.8
-2	.0	2.2	3.1	1.0	.1	.1	.0	51	3.7	3.0
-3	.0	.8	1.6	.0	.0	.0	.0	18	.8	1.6
-4	.0	1.0	.9	.8	.0	.0	.0	21	1.0	1.7
-5	.0	.3	.7	.3	.1	.0	.0	10	.5	.8
-6	.0	.1	.1	.0	.0	.0	.0	2	.3	.0
-7/-8	.3	.0	.0	.0	.1	.1	.0	4	.3	.3
-9/-10	.1	.0	.1	.0	.1	.0	.0	3	.1	.3
-11/-13	.0	.4	.3	.1	.0	.0	.0	6	.5	.3
-14/-16	.0	.0	.4	.0	.0	.0	.0	3	.4	.0
TOTAL	5	83	249	262	140	17	7	763	378	385
PCT	.7	10.9	32.6	34.3	18.3	2.2	.9	100.0	49.5	50.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.9	.0	.0	.0	.0	.9	.0	1.8	.0	.0	.0	.0	1.8
1-2	.0	1.7	.0	.0	.0	.0	1.7	.0	1.8	.4	.0	.0	.0	2.2
3-4	.0	.4	2.0	.0	.0	.0	2.5	.0	.0	2.4	.4	.0	.0	2.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.4	.0	.0	.0	.4	.0	.4	.0	.9	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	2.5	.0	.0	.0	5.5	.0	4.0	4.3	2.2	.0	.0	10.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	1.8	.4	.0	.0	.0	2.7	.4	1.9	.0	.0	.0	.0	2.4
1-2	.0	1.9	.4	.0	.0	.0	2.4	.0	1.0	1.8	.0	.0	.0	2.8
3-4	.0	1.8	2.6	.4	.0	.0	4.8	.0	.9	2.8	.0	.0	.0	3.7
5-6	.0	.9	2.4	.3	.0	.0	3.6	.0	.4	.4	.2	.0	.0	1.1
7	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.3	.0	.4	.0	.0	.8	.0	.1	.0	.4	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	7.2	5.8	1.7	.0	.0	13.1	.4	4.4	5.0	1.1	.0	.0	11.0

PERIOD: (OVER-ALL) 1963-1974

JUNE
TABLE 18 (CONT)AREA 0023 DNEKOTA'4 ISLAND SE
48.5N 155.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.9	1.6	.0	.0	.0	.0	2.5	.0	.1	.0	.0	.0	.0	.0	.0	.1
1-2	.0	2.5	1.1	.0	.0	.0	3.6	.0	3.3	.7	.0	.0	.0	.0	.0	3.9
3-4	.3	.7	.4	.0	.0	.0	1.5	.1	1.1	2.0	.0	.0	.0	.0	.0	3.3
5-6	.0	.0	2.1	.3	.0	.0	2.5	.0	.0	2.1	.0	.0	.0	.0	.0	2.1
7	.0	.0	1.3	.4	.0	.0	1.8	.0	.0	.9	.0	.0	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	4.7	5.5	.8	.0	.0	12.2	.1	4.5	5.7	.0	.0	.0	.0	.0	10.3

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	1.7	.0	.0	.0	.0	1.7	.0	.6	.0	.0	.0	.0	.0	.0	.6	
1-2	.4	1.6	.8	.0	.0	.0	2.8	.0	4.3	2.8	.0	.0	.0	.0	.0	7.1	
3-4	.0	1.7	5.0	.3	.0	.0	7.1	.0	.6	1.6	.1	.0	.0	.0	.0	2.2	
5-6	.0	.4	2.1	.0	.4	.0	3.0	.0	.4	1.7	.0	.0	.0	.0	.0	2.1	
7	.0	.0	.0	1.7	.0	.0	1.7	.0	.0	1.8	1.0	.0	.0	.0	.0	2.8	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	5.4	8.0	2.0	.4	.0	16.3	.0	5.8	7.8	1.1	.0	.0	.0	.0	14.8	96.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.8	10.3	.4	.0	.0	.0	16.6	
1-2	.4	17.9	8.1	.0	.0	.0	26.5	
3-4	.4	7.2	18.8	1.3	.0	.0	27.8	
5-6	.0	2.2	12.1	.9	.4	.0	15.7	
7	.0	.4	4.5	4.9	.0	.0	9.9	
8-9	.0	.0	.4	.4	.0	.0	.9	
10-11	.0	.4	.0	.9	.0	.0	1.3	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.4	.4	.0	.0	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.7	39.0	44.8	9.0	.4	.0	100.0	223

PERIOD: (OVER-ALL) 1952-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	12.4	13.5	5.8	1.7	1.1	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	3
6-7	.0	.4	8.3	4.4	6.1	3.0	1.9	2.8	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	7
8-9	.0	.6	1.9	1.9	2.8	3.0	.6	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	7
10-11	.0	.0	.0	1.4	.8	.6	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
12-13	.0	.0	1.7	.3	.8	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
>13	.0	.0	.0	1.1	.6	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
INDFT	3.6	3.0	3.6	1.4	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	3
TOTAL	16	63	103	39	53	28	11	15	4	8	1	0	0	0	0	0	0	0	0	363	5
PCT	4.4	17.4	28.9	10.3	14.6	7.7	3.0	4.1	1.1	2.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974AREA 0023 ONEKOTAN ISLAND SE
48.5N 155.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.4	.0	3.3	.0	.0	.0	.0	6.6	1.1	.0	43.7	.8	.0	.0	47.8
NE	2.5	.0	7.4	.0	.0	.0	.0	9.9	4.5	.0	33.4	1.1	1.8	.0	27.4
E	6.2	.0	9.3	.0	.0	.0	.0	14.9	1.7	.0	68.4	.6	.0	.0	14.5
SE	7.4	.0	6.8	.0	.0	.0	.0	14.0	2.5	.0	65.5	1.9	.8	.0	15.3
S	8.1	.0	5.5	.0	.0	.0	.0	13.6	1.3	.0	67.0	.7	1.0	.0	16.4
SW	4.4	.0	1.6	.0	.0	.0	.0	6.0	.0	.0	57.1	1.9	.3	.0	34.7
W	1.7	.0	1.7	.0	.0	.0	.0	3.4	.0	.0	50.9	1.3	.5	.0	43.9
NW	4.0	.0	.0	.0	.0	.0	.0	4.0	1.2	.0	51.4	.0	.3	.0	43.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	71.6	.0	.0	1.5	25.4
TOT PCT	4.5	.0	4.2	.0	.0	.0	.0	8.5	1.4	.0	59.0	1.0	.6	.1	29.4
TOT OBS:	1055														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	TMDP LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	3.5	.0	3.3	.0	.0	.0	.0	6.6	2.0	.0	57.2	1.0	1.0	.0	.0	32.2
06005	6.3	.0	2.4	.0	.0	.0	.0	8.7	.4	.0	58.1	.4	.8	.4	.0	31.2
12015	4.9	.0	7.6	.0	.0	.0	.0	12.5	1.1	.0	60.8	1.5	.0	.0	.0	24.0
18021	3.2	.0	4.0	.0	.0	.0	.0	6.7	2.0	.0	59.9	1.2	.4	.0	.0	29.8
TOT PCT	4.5	.0	4.3	.0	.0	.0	.0	8.6	1.4	.0	59.0	1.0	.6	.1	.0	29.4
TOT OBS:	1072															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.9	4.4	7.2	.7	.0	.0		9.2	10.9		11.0	9.5	7.4	8.8	7.6	8.6	10.2	10.6
NE	.6	5.3	4.9	.4	.1	.0		11.4	11.4		12.6	12.5	13.8	9.8	10.7	12.1	11.6	5.9
E	1.8	5.4	3.4	.6	.1	.0		11.3	10.0		15.4	11.8	12.9	9.1	13.2	9.0	7.8	10.6
SE	1.2	4.7	4.1	.5	.0	.0		10.5	10.4		7.1	12.2	8.7	8.8	10.9	11.7	12.8	12.0
S	1.6	5.2	5.2	1.2	.0	.0		13.1	10.7		8.0	13.0	15.2	17.2	6.6	16.4	16.1	13.6
SW	1.1	7.7	4.8	.3	.0	.0		14.0	9.8		11.7	13.2	10.6	17.2	18.0	14.3	10.1	20.2
W	1.2	9.0	5.3	.5	.0	.0		16.0	9.8		16.7	16.0	16.5	18.9	18.6	12.9	13.4	16.0
NW	.5	4.8	3.1	.6	.0	.0		8.9	10.8		11.9	9.0	8.9	4.4	9.1	10.4	10.9	3.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.5							5.5	.0		5.7	2.8	5.1	5.9	5.4	4.7	6.9	7.4
TOT OBS	147	472	344	49	2	0	1014		9.8		141	144	122	102	129	128	144	94
TOT PCT	14.5	46.5	33.9	4.8	.2	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	03	06	12	18
N	3.0	4.2	2.0	.0	.0		9.2	10.9	10.3	8.0	8.1	10.4	
NE	3.4	5.5	2.2	.3	.0		11.4	11.4	12.5	12.1	11.4	9.3	
E	4.0	5.5	1.6	.2	.0		11.3	10.0	13.6	11.2	11.1	8.9	
SE	3.3	5.9	1.3	.0	.0		10.5	10.4	9.6	8.8	11.3	12.5	
S	3.6	7.4	2.1	.0	.0		13.1	10.7	10.5	16.0	11.5	15.1	
SW	3.7	8.9	1.2	.2	.0		14.0	9.8	12.5	13.5	16.1	14.1	
W	5.2	9.0	1.6	.2	.0		16.0	9.8	16.3	17.5	15.8	14.4	
NW	2.3	4.9	1.7	.0	.0		8.9	10.8	10.4	6.9	9.7	8.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	5.5						5.5	.0	4.2	6.0	5.1	7.1	
TOT OBS	344	522	138	10	0	1014		9.8	285	234	257	238	
TOT PCT	33.9	51.5	13.6	1.0	.0		100.0		100.0	100.0	100.0	100.0	

JULY

PERIOD: (PRIMARY) 1959-1974
(OVER-ALL) 1879-1974AREA 0023 ONEKOTAN ISLAND SE
48.5N 155.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	4.2	9.1	43.2	37.9	5.3	.4	.0	10.5	100.0	285
06009	6.0	8.5	48.7	29.9	6.4	.4	.0	9.9	100.0	234
12015	5.1	9.7	49.0	31.1	5.1	.0	.0	9.4	100.0	257
18021	7.1	8.4	45.8	30.1	2.5	.0	.0	9.4	100.0	236
TOT	56	91	472	344	49	2	0	9.8		1014
PCT	5.5	9.0	46.5	33.9	4.8	.2	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	1.2	.3	1.4	7.3		6.8
NE	.1	.0	1.4	4.8		7.7
E	.3	.1	.4	9.9		7.7
SE	.5	.3	.3	12.1		7.6
S	.7	.4	1.0	11.7		7.4
SW	1.5	1.0	1.3	8.3		6.5
W	2.3	.9	1.5	10.4		6.5
NW	.5	.8	.6	5.6		6.8
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.7	4.7		7.1
TOT OBS	52	27	80	556	695	
TOT PCT	7.5	3.9	8.6	80.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) (NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	3.8	.1	.6	.3	.9	1.8	.7	.0	.0	.0	1.9	
NE	3.7	.1	.6	2.1	1.5	2.6	.5	.0	.0	.0	.4	
E	6.5	.1	.3	1.2	1.0	.9	.0	.1	.0	.0	.6	
SE	7.8	.1	.5	.5	1.8	1.1	.0	.0	.3	.0	1.2	
S	8.5	.0	.3	1.2	1.6	.7	.0	.0	.0	.1	1.5	
SW	5.4	.0	.3	.5	.9	1.1	.3	.3	.0	.0	3.2	
W	6.6	.1	.7	1.0	1.3	.9	.4	.3	.1	.3	3.5	
NW	7.9	.1	.1	.7	.7	.8	.3	.0	.1	.0	1.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.7	.0	.0	.0	.6	.6	.1	.0	.3	.0	.7	
TOT OBS	340	4	23	51	71	73	16	5	6	3	102	695
TOT PCT	48.9	.7	3.3	7.3	10.2	10.5	2.3	.7	.9	.4	14.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>5000	1.0	1.7	2.0	2.0	2.0	2.0	2.0	2.0
>3500	1.2	3.2	4.2	4.3	4.3	4.3	4.3	4.3
>2000	3.6	9.7	14.1	14.6	14.7	14.7	14.8	14.8
>1000	5.0	15.9	22.3	23.1	23.8	24.1	24.6	24.6
>600	5.6	18.4	26.8	28.2	29.5	30.0	31.4	31.4
>300	6.1	20.2	29.0	30.7	32.3	33.9	34.4	34.4
>150	6.1	20.5	29.3	31.0	32.9	34.6	35.2	35.2
>0	6.1	20.7	32.3	38.0	44.7	56.2	81.7	85.2
TOTAL	42	144	224	264	310	390	567	591

TOTAL NUMBER OF OBS: 694

PCT FREQ NH <5/8: 14.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.4	4.1	4.8	1.2	1.9	1.4	3.0	4.9	28.4	46.4	732

JULY

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974

TABLE 8

AREA 0023 ONEKOTAN ISLAND SE
40.3N 155.4EPERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.2	.3	.7	1.0	.7	*	.0	.0	.0	2.6	
	NO PCP	2.4	3.5	6.2	4.8	7.4	7.1	5.2	3.0	.0	4.0	43.7	
	TOT %	2.9	3.7	6.5	5.5	8.5	7.3	5.3	3.0	.0	4.0	46.3	
1/2<1	PCP	.2	.2	.2	.2	.1	.2	*	.0	.0	.0	1.2	
	NO PCP	.9	.6	.8	1.3	.8	.3	1.2	.3	.0	.4	6.1	
	TOT %	.7	.7	1.0	1.5	.9	.5	1.2	.3	.0	.4	7.3	
1<2	PCP	.0	.2	.2	.1	.2	.1	.2	.1	.0	.0	1.1	
	NO PCP	.4	1.0	.7	.4	.8	.2	.7	.4	.0	.1	4.8	
	TOT %	.4	1.2	.9	.5	1.0	.4	1.0	.5	.0	.1	5.9	
2<5	PCP	.2	.3	.8	.3	.5	.3	.1	.2	.0	.0	2.6	
	NO PCP	1.4	1.4	.4	1.1	1.1	.9	1.2	.8	.0	.3	8.6	
	TOT %	1.5	1.7	1.2	1.5	1.6	1.2	1.3	1.0	.0	.3	11.2	
5<10	PCP	.1	.1	.1	.3	.2	*	.1	*	.0	.0	1.0	
	NO PCP	2.9	1.7	.9	1.5	1.6	1.9	2.7	1.5	.0	.5	14.6	
	TOT %	2.4	1.8	1.0	1.8	1.8	1.9	2.8	1.5	.0	.5	15.6	
10+	PCP	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	1.2	1.1	.8	.6	.7	3.2	3.6	1.4	.0	1.2	13.6	
	TOT %	1.2	1.1	.9	.6	.7	3.2	3.6	1.4	.0	1.2	13.7	
TOT OBS													
TOT PCT		4.0	10.3	11.4	11.3	14.3	14.4	15.2	7.7	.0	6.4	100.0	1041

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.8	.4	1.8	.6	1.0	.9	.6	.4	.0	3.9	10.3	
	4-10	1.7	2.6	3.6	2.1	3.4	4.5	3.3	2.8	.0	.0	24.2	
	11-21	.7	1.4	1.2	2.2	3.0	2.0	2.0	1.1	.0	.0	13.6	
	22+	.2	.2	.3	.5	.5	.2	.0	.0	.0	.0	1.8	
	TOT %	3.4	4.5	6.9	5.4	7.9	7.6	6.1	4.4	.0	3.9	49.9	
1/2<1	0-3	.0	.0	.0	.2	.0	.2	.2	.0	.0	.4	.9	
	4-10	.5	.4	.5	.9	.6	.4	.8	.1	.0	.0	4.2	
	11-21	.0	.3	.4	.3	.3	.1	.3	.1	.0	.0	1.6	
	22+	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.6	.7	1.0	1.4	.9	.6	1.2	.2	.0	.4	6.9	
1<2	0-3	.0	.2	.1	.0	.2	*	.2	.0	.0	.1	.7	
	4-10	.1	.8	.4	.3	.1	.3	.3	.0	.0	.0	2.6	
	11-21	.3	.4	.4	.2	.7	.2	.4	.4	.0	.0	3.0	
	22+	.1	*	.0	.0	.0	.0	.0	.2	.0	.0	.3	
	TOT %	.5	1.4	.8	.5	1.0	.5	1.1	.6	.0	.1	6.5	
2<5	0-3	.0	.0	.0	.2	.3	.1	.0	.0	.0	.3	.8	
	4-10	.7	.7	.5	.5	.5	.5	.4	.5	.0	.0	4.3	
	11-21	.9	.8	.4	.5	.6	.8	.8	.3	.0	.0	5.2	
	22+	.1	.4	.4	.1	.3	.0	.3	.3	.0	.0	1.7	
	TOT %	1.7	1.9	1.3	1.3	1.6	1.3	1.5	1.1	.0	.3	12.1	
5<10	0-3	.1	.1	.0	.2	.1	.1	.1	.1	.0	.3	1.0	
	4-10	1.0	.4	.2	.7	.5	.5	1.3	.5	.0	.0	5.2	
	11-21	.9	1.2	.6	.5	.3	.9	1.2	.6	.0	.0	6.1	
	22+	.3	.0	.0	.0	.5	.0	.0	.1	.0	.0	.8	
	TOT %	2.3	1.7	.8	1.4	1.4	1.4	2.6	1.3	.0	.3	13.2	
10+	0-3	.1	.0	.0	.1	.1	.0	.1	*	.0	.7	1.1	
	4-10	.5	.2	.2	.1	.2	1.8	2.3	.7	.0	.0	6.1	
	11-21	.2	.7	.5	.3	.1	.9	.8	.5	.0	.0	4.0	
	22+	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1	
	TOT %	.8	.9	.6	.5	.4	2.8	3.4	1.2	.0	.7	11.3	
TOT OBS													
TOT PCT		9.3	11.1	11.4	10.5	13.2	14.1	16.0	8.7	.0	5.7	100.0	979

JULY

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1870-1974AREA 0023 ONEKOTAN ISLAND SE
48.5N 155.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 289	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL 81.7	NH <5/8 ANY HGT	TOTAL OBS
0000	40.8	.9	1.9	8.5	14.6	10.8	1.9	.9	.5	.9	81.7	18.3	213
0600	48.9	.6	3.4	6.9	8.6	12.6	2.3	.6	.6	.6	85.1	14.9	174
1200	58.4	.6	3.7	6.2	3.7	8.7	.6	.0	1.2	.0	83.2	16.8	161
1800	49.4	.6	4.1	6.5	11.2	8.8	4.7	1.2	1.2	.0	87.6	12.4	170
TOT	35.0	5	23	51	71	74	17	5	6	3	605	113	718
PCT	48.7	.7	3.2	7.1	9.9	10.3	2.4	.7	.8	.4	84.3	15.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	48.7	5.9	5.6	8.2	15.3	16.1	341
0600	48.3	6.0	6.4	13.1	12.4	13.9	267
1200	54.5	7.2	6.2	13.0	9.6	9.6	292
1800	44.9	7.2	6.5	12.7	18.1	10.5	276
TOT	57.8	7.7	7.8	13.6	16.4	14.9	1176
PCT	49.1	6.5	6.1	11.6	13.9	12.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000	42.6	51.5	63.9	21.3	14.9	202
0600	50.6	57.7	73.8	13.7	12.5	198
1200	59.0	65.4	80.8	6.4	12.8	156
1800	50.0	56.0	69.6	20.2	10.1	160
TOT	34.7	39.7	49.6	11.0	8.8	694
PCT	50.0	57.2	71.5	15.9	12.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
00/64	.0	.0	.0	.0	.0	.9	.9	.0	4	1.9
59/99	.0	.0	.0	.0	.0	.9	1.9	.5	7	3.2
50/94	.0	.0	.0	.0	.5	3.7	7.4	18.1	64	29.6
49/49	.0	.0	.0	.0	.5	8.3	38.4	102	47.2	
40/44	.0	.0	.0	.0	.5	.0	2.3	13.4	35	16.2
39/39	.0	.0	.0	.0	.0	.0	.0	1.9	4	1.9
TOTAL	0	0	0	0	2	13	45	156	216	100.0
PCT	.0	.0	.0	.0	.9	6.0	20.8	72.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALN
00/64	.5	.0	.9	.0	.2	.2	.0	.0	.0	.0
59/99	.3	.9	1.2	.2	.0	.0	.0	.6	.0	.0
50/94	2.5	1.5	6.6	7.2	4.2	4.1	2.9	.7	.0	.0
49/49	4.9	2.1	5.4	6.9	7.4	4.1	10.5	5.0	.0	.9
40/44	1.5	3.1	2.2	1.0	1.2	1.7	2.9	2.1	.0	.5
39/39	1.3	.0	.0	.0	.0	.0	.5	.1	.0	.0
TOTAL	11.0	7.6	16.3	15.4	13.0	10.1	16.8	8.4	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	63	61	57	48	40	37	35	48.3	350
0600	65	61	59	48	41	38	37	48.1	266
1200	58	53	52	45	39	37	35	45.4	297
1800	64	59	51	45	39	36	34	45.1	277
TOT	65	61	55	46	39	37	34	46.8	1190

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.0	3.0	7.6	37.9	51.5	91	66
0600	.0	.0	.0	8.8	17.5	73.7	93	57
1200	.0	.0	.0	2.0	14.0	84.0	95	50
1800	.0	.0	.0	4.5	9.1	86.4	96	44
TOT	0	0	2	13	46	156	94	217

JULY

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974AREA 0023 ONEKOTAN ISLAND SE
48.5N 155.6E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	W FOG
20/22	.0	.0	.0	.0	.0	.1	.1	.0	.0	2	.2	.0
19/19	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.1	.0
14/14	.0	.0	.0	.0	.2	.4	.4	.0	.0	13	1.1	.5
11/13	.0	.0	.0	.9	.7	.7	.4	.1	.0	30	2.7	.8
9/13	.0	.0	.0	1.1	.8	.8	.7	.1	.0	30	2.6	.9
7/8	.0	.0	.2	2.9	1.1	1.2	.1	.0	.0	47	3.5	2.0
6	.0	.0	.2	.4	.9	.1	.0	.0	.0	14	1.1	.6
5	.0	.0	1.5	4.0	3.4	.9	.0	.0	.0	84	5.9	4.0
4	.0	.2	2.5	7.0	3.1	.4	.1	.0	.0	112	7.3	5.9
3	.0	.6	.9	1.2	1.1	.4	.1	.0	.0	36	2.4	1.9
2	.1	1.5	5.2	5.8	3.3	.1	.1	.0	.0	137	10.5	5.7
1	.0	.6	.9	2.1	1.1	.1	.0	.0	.0	41	2.9	1.9
0	.1	1.2	4.5	7.8	2.6	.2	.2	.0	.0	141	9.1	7.5
-1	.0	.1	.8	.8	.8	.1	.0	.0	.0	23	1.3	1.4
-2	.0	.6	2.0	3.1	.1	.1	.0	.0	.0	50	3.5	2.4
-3	.1	.5	.6	.6	.2	.1	.0	.0	.0	18	1.8	.4
-4	.0	.5	1.3	1.1	.4	.1	.0	.0	.0	28	2.6	.7
-5	.0	.4	.5	1.1	.0	.0	.0	.0	.0	16	1.3	.6
-6	.1	.1	.5	.1	.1	.0	.0	.0	.0	8	.7	.2
-7/-8	.2	.2	.6	.1	.1	.0	.0	.0	.0	11	.5	.8
-9/-10	.0	.2	.0	.2	.0	.0	.0	.0	.0	4	.1	.4
-11/-13	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	6	58	190	341	170	51	22	9	1	848	51.2	32.8
PCT	.7	6.8	22.4	40.2	20.0	6.0	2.6	1.1	.1	100.0	61.2	38.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.7	.0	1.8	.0	.0	.0	.0	1.8
1-2	.0	2.8	1.0	.0	.0	.0	3.8	.0	1.8	3.1	.0	.0	.0	5.0
3-4	.0	.3	.7	.4	.0	.0	1.3	.0	1.1	1.3	.0	.0	.0	2.5
5-6	.0	.4	1.0	.5	.0	.0	2.0	.0	.0	1.2	.1	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.4	.0	.0	1.3
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.4	.0	.4
10-11	.0	.0	.3	.3	.0	.0	.6	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.8	3.4	1.5	.0	.0	9.1	.0	5.0	6.5	.6	.4	.0	12.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.5	.0	.0	.0	.0	3.2	.8	1.5	.0	.0	.0	.0	2.3
1-2	.0	4.1	.7	.0	.0	.0	4.8	.0	3.3	2.4	.0	.0	.0	5.7
3-4	.0	1.1	1.2	.4	.0	.0	2.8	.0	1.5	.7	.1	.0	.0	2.3
5-6	.0	.0	1.1	.4	.0	.0	1.5	.0	.0	.0	.1	.0	.0	.1
7	.0	.6	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	8.3	3.4	.8	.0	.0	13.3	.8	6.4	3.4	.6	.0	.0	11.2

PERIOD: (OVER-ALL) 1963-1974

JULY

AREA 0023 ONEKOTAN ISLAND SE
48.5N 155.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.3	2.1	1.1	.0	.0	.0		4.6	.6	1.0	.0	.0	.0	.0		1.5
1-2	.0	.9	1.4	.0	.0	.0		2.3	.0	1.4	1.2	.0	.0	.0		3.1
3-4	.0	.4	1.4	.7	.0	.0		2.5	.0	.9	1.4	.0	.0	.0		2.3
5-6	.0	.4	.7	.3	.0	.0		1.3	.0	.0	.6	.0	.0	.0		.9
7	.0	.0	.0	1.9	.0	.0		1.9	.0	.0	.0	.4	.0	.0		.4
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-15	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.3	3.7	4.7	2.9	.0	.0		12.6	.6	3.6	3.5	.4	.0	.0		8.1

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	2.5	.0	.0	.0	.0		2.9	.1	1.2	.0	.0	.0	.0		1.3
1-2	.0	3.0	2.2	.0	.0	.0		5.2	.0	1.8	1.6	.0	.0	.0		3.4
3-4	.0	1.4	3.8	.0	.0	.0		5.2	.0	.9	.9	.4	.0	.0		2.1
5-6	.0	.0	1.4	.4	.0	.0		1.8	.0	.0	1.6	.1	.0	.0		1.7
7	.0	.4	.0	.0	.0	.0		.4	.0	.0	1.1	.0	.0	.0		1.1
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.8	.0	.0	.0		.8
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.4	.0	.0		.5
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0		.1
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	7.3	7.4	.4	.0	.0		15.5	.1	2.9	5.3	1.7	.0	.0		93.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.1	13.0	1.1	.0	.0	.0	25.2	
1-2	.0	19.5	13.7	.0	.0	.0	33.2	
3-4	.0	7.6	11.5	1.9	.0	.0	21.0	
5-6	.0	.8	8.0	1.9	.0	.0	10.7	
7	.0	1.1	1.9	2.7	.0	.0	5.7	
8-9	.0	.0	.8	1.1	.4	.0	2.3	
10-11	.0	.0	.4	.8	.0	.0	1.1	
12	.0	.0	.4	.0	.0	.0	.8	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.1	42.0	37.8	8.8	.4	.0	100.0	262

PERIOD: (OVER-ALL) 1952-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
46	2.4	13.5	13.2	5.1	1.3	.4	.0	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	172	3
6-7	.6	3.4	9.0	7.1	2.6	1.3	.9	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	121	5
8-9	.0	.9	2.8	5.1	3.2	.9	.9	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	6
10-11	.0	.6	1.3	.9	1.3	.6	.9	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	6
12-13	.0	.0	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
15-17	.0	.0	.0	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
INDPT	6.0	2.6	2.8	1.9	.2	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	2
TOTAL	42	98	142	99	42	17	14	8	4	2	0	0	0	0	0	0	0	0	0	468	4
PCT	9.0	20.9	30.3	21.2	9.0	3.6	3.0	1.7	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1860-1974AREA 0023 ONEKOTAN ISLAND SE
48.4N 155.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.7	.0	4.7	.0	.0	.0	.0	9.5	.0	.0	37.2	6.3	.0	.0	47.0
NE	8.6	.0	8.6	.0	.0	.0	.0	15.0	.3	.0	51.2	.0	2.7	.0	30.9
E	8.5	.0	8.5	.0	.0	.0	.0	17.1	1.2	.0	48.4	1.6	1.6	.0	30.1
SE	11.3	.0	10.4	.0	.0	.0	.0	21.8	.9	.0	54.2	3.7	.9	.0	18.5
S	9.3	.0	4.8	.0	.0	.0	.0	13.5	.7	.0	61.9	.0	2.2	.0	21.7
SW	2.6	.0	2.0	.0	.0	.0	.0	4.6	1.0	.0	68.0	1.5	.0	.0	24.8
W	2.4	.0	1.0	.0	.0	.0	.0	3.4	.6	.0	38.5	2.6	1.1	.0	53.8
NW	4.0	.0	2.3	.0	.0	.0	.0	6.3	.9	.0	34.4	.9	.2	.0	57.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	2.2	.0	.0	.0	.0	2.2	.0	.0	47.8	4.3	2.2	.0	43.5
TOT PCT	5.6	.0	4.2	.0	.0	.0	.0	9.7	.7	.0	51.3	2.0	1.1	.0	35.2
TOT OBS:	951														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.7	.0	4.3	.0	.0	.0	.0	9.1	.0	.0	54.3	2.2	1.1	.0	33.3
0600	4.5	.0	2.5	.0	.0	.0	.0	7.0	.8	.0	52.7	1.2	.6	.0	37.9
1200	5.4	.0	5.0	.0	.0	.0	.0	9.9	.8	.0	49.2	1.2	1.7	.0	37.2
1800	8.3	.0	4.9	.0	.0	.0	.0	13.2	1.5	.0	49.8	3.4	1.0	.0	31.2
TOT PCT TOT OBS:	5.6 966	.0	4.1	.0	.0	.0	.0	9.6	.7	.0	51.7	2.0	1.0	.0	35.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	3.9	2.2	.4	.0	.0		7.5	9.5		7.1	10.1	8.8	8.9	7.2	6.7	5.7	4.5
NE	1.0	4.2	1.2	.5	.0	.0		6.9	8.8		11.6	6.8	5.0	3.0	7.0	7.7	6.6	6.4
E	.5	2.8	1.9	.8	.0	.0		6.1	11.1		9.8	5.8	6.5	6.7	5.1	4.4	3.4	6.6
SE	1.5	6.0	3.6	.4	.0	.0		11.5	9.2		8.3	10.1	10.4	9.2	18.6	11.3	10.5	13.0
S	2.6	6.4	5.0	.5	.0	.0		14.4	9.5		9.8	15.6	12.7	15.8	14.0	14.8	14.5	18.9
SW	3.3	10.9	5.4	1.1	.0	.0		20.3	9.7		15.2	22.7	20.0	22.5	12.7	29.8	17.5	23.8
W	1.3	8.2	6.6	.9	.0	.0		16.9	10.7		22.2	12.4	17.7	19.6	16.0	13.5	19.8	14.6
NW	.8	6.4	4.3	.6	.0	.0		12.1	10.4		13.6	12.9	10.4	10.4	15.8	9.4	15.7	7.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4							4.4	.0		2.4	3.6	8.5	4.0	3.7	2.5	6.4	4.7
TOT OBS	155	472	292	50	0	0	969		9.4		127	139	130	101	136	120	110	106
TOT PCT	16.0	48.7	30.1	5.2	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+					00	06	12	18	21
N	2.8	3.8	.7	.1	.0		7.5	9.5		8.6	8.9	6.9	5.1	
NE	3.2	3.0	.7	.0	.0		6.9	8.8		9.1	4.1	7.3	6.5	
E	1.9	3.2	.9	.1	.0		6.1	11.1		7.7	6.6	4.8	5.0	
SE	4.7	5.6	1.1	.0	.0		11.5	9.2		9.2	9.8	15.1	11.7	
S	5.5	7.0	1.7	.2	.0		14.4	9.5		12.9	14.1	14.4	16.7	
SW	6.8	10.8	2.3	.4	.0		20.3	9.7		19.1	21.1	20.7	20.6	
W	4.8	8.8	3.0	.2	.0		16.9	10.7		17.1	18.5	14.8	17.2	
NW	3.6	7.0	1.4	.1	.0		12.1	10.4		13.3	10.4	12.8	11.7	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	4.4						4.4	.0		3.0	6.5	3.1	3.6	
TOT OBS	366	477	115	11	0	969		9.4		266	231	256	216	
TOT PCT	37.8	49.2	11.9	1.1	.0		100.0			100.0	100.0	100.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1860-1974AREA 0023 ONEKOTAN ISLAND SE
48.4N 155.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	3.0	12.4	44.7	33.5	6.4	.0	.0	9.9	100.0	266
06009	6.5	12.6	45.5	29.4	6.1	.0	.0	9.5	100.0	231
12015	3.1	10.2	52.7	29.7	4.3	.0	.0	9.5	100.0	256
18021	5.6	11.1	52.3	27.3	3.7	.0	.0	8.6	100.0	216
TOT	43	112	472	292	50	0	0	9.4		969
PCT	4.4	11.6	48.7	30.1	5.2	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.5	1.2	4.0		6.6
NE	.8	.0	.6	6.8		7.3
E	.0	.2	1.0	5.6		7.5
SE	.7	.2	.3	9.1		7.3
S	.6	.2	2.7	10.5		7.3
SW	1.5	.6	2.5	13.7		7.0
W	2.9	1.0	3.9	11.2		6.3
NW	1.6	.6	2.5	6.4		6.3
VAR	.0	.0	.0	.0		.0
CALM	.8	.6	.4	4.4		6.5
TOT OBS	49	20	79	376	524	6.9
TOT PCT	9.4	3.8	15.1	71.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH $\geq 4/8$
AND OCCURRENCE OF NH $\leq 5/8$ BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH $\leq 5/8$ ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.7	.0	.6	1.0	1.6	1.3	.0	.1	.0	.0	1.0	
NE	4.1	.0	.4	.2	1.3	.6	.2	.0	.0	.0	1.1	
E	3.8	.7	.0	.7	1.0	.6	.2	.0	.0	.0	.4	
SE	5.2	.4	.8	.8	1.4	.3	.0	.2	.0	.0	1.2	
S	7.8	.5	.3	.5	1.8	.9	1.2	.0	.0	.0	.9	
SW	9.5	.7	.1	1.0	2.1	1.1	.4	.0	.0	.2	3.6	
W	4.7	.2	.3	1.2	3.5	1.6	1.3	.4	.4	.0	5.5	
NW	1.8	.0	.4	1.9	1.9	1.3	.4	.0	.0	.2	3.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.1	.0	.2	.0	1.3	.8	.2	.0	.0	.0	1.5	
TOT OBS	208	6	14	38	80	50	22	4	3	2	97	524
TOT PCT	39.7	1.1	2.7	7.3	15.3	9.5	4.2	.8	.6	.4	18.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH $\geq 4/8$) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.4	.8	.9	.9	.9	.9	.9	.9
= OR >5000	.9	1.5	1.7	1.7	1.7	1.7	1.7	1.7
= OR >3500	2.8	5.1	5.9	5.9	5.9	5.9	5.9	5.9
= OR >2000	6.3	11.6	14.8	15.0	15.2	15.3	15.3	15.3
= OR >1000	10.2	20.8	28.0	28.6	29.2	29.7	30.5	30.5
= OR >600	11.9	25.8	33.9	34.7	35.8	36.7	37.7	37.7
= OR >300	12.3	26.1	35.2	36.6	37.9	39.4	40.5	40.5
= OR >150	12.3	26.5	35.6	36.9	38.3	40.3	41.7	41.7
= OR >0	12.7	27.7	38.6	41.7	44.9	54.4	78.4	81.6
TOTAL	67	146	204	220	237	287	414	431

TOTAL NUMBER OF OBS: 528

PCT FREQ NH $\leq 5/8$: 18.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.4	4.2	4.2	3.3	1.6	4.2	4.2	6.5	30.5	36.8	570

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1800-1974

AUGUST

AREA 0023 ONEKOTAN ISLAND SE
48.4N 155.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.3	.3	1.0	.9	.6	.1	.2	.0	.0	3.5	
	NO PCP	2.4	3.3	2.2	5.7	7.6	12.4	5.2	2.8	.0	1.8	43.4	
	TOT %	2.5	3.6	2.6	6.7	8.5	13.0	5.2	3.0	.0	1.8	46.9	
1/2<1	PCP	.2	.4	.2	.1	.0	.0	.2	.1	.0	.0	1.2	
	NO PCP	.0	.1	.3	.6	.7	.6	.5	.1	.0	.1	3.1	
	TOT %	.2	.5	.5	.7	.7	.6	.7	.2	.0	.1	4.2	
1<2	PCP	.1	.2	.4	.3	.2	.2	.1	.1	.0	.0	1.5	
	NO PCP	.1	.3	.4	.2	.4	.3	.3	.4	.0	.1	2.5	
	TOT %	.2	.5	.8	.5	.6	.4	.4	.5	.0	.1	4.0	
2<5	PCP	.1	.3	.0	.8	.5	.1	.2	.2	.0	.1	2.4	
	NO PCP	.3	.5	.7	.9	.7	1.6	1.5	1.5	.0	.7	8.4	
	TOT %	.4	.8	.7	1.7	1.2	1.7	1.8	1.6	.0	.8	10.8	
5<10	PCP	.1	.0	.1	.2	.4	.1	.0	.2	.0	.0	1.2	
	NO PCP	1.2	1.0	.9	.6	1.4	2.6	3.8	2.3	.0	.5	14.5	
	TOT %	1.3	1.0	1.0	.8	1.8	2.7	3.8	2.5	.0	.5	15.7	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	2.0	1.5	.7	1.0	1.8	2.0	4.6	3.3	.0	1.5	18.4	
	TOT %	2.0	1.5	.7	1.0	1.8	2.0	4.6	3.3	.0	1.5	18.4	
TOT OBS													945
TOT PCT													4.6 8.0 6.4 11.4 20.5 16.5 11.1 .0 4.9 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.3	.3	.1	1.1	2.0	2.1	.6	.5	.0	1.7	8.6	
	4-10	1.9	2.2	1.4	3.8	4.1	7.1	3.7	2.7	.0		26.7	
	11-21	1.2	.7	.8	2.2	2.3	3.3	2.1	1.0	.0		13.5	
	22+	.0	.1	.1	.1	.3	.4	.3	.0	.0		1.4	
	TOT %	3.3	3.3	2.4	7.1	8.7	12.9	6.6	4.2	.0	1.7	50.2	
1/2<1	0-3	.0	.1	.0	.0	.1	.0	.1	.1	.0	.1	.5	
	4-10	.3	.0	.1	.6	.2	.4	.3	.1	.0		1.9	
	11-21	.1	.1	.3	.2	.5	.3	.2	.2	.0		1.8	
	22+	.0	.2	.2	.0	.0	.1	.0	.0	.0		.4	
	TOT %	.4	.4	.5	.8	.8	.7	.6	.3	.0	.1	4.7	
1<2	0-3	.1	.0	.1	.0	.0	.2	.1	.1	.0	.1	.6	
	4-10	.1	.4	.3	.2	.4	.5	.3	.4	.0		2.6	
	11-21	.1	.0	.3	.2	.2	.0	.2	.3	.0		1.3	
	22+	.0	.1	.2	.2	.0	.0	.0	.0	.0		.4	
	TOT %	.3	.5	.9	.6	.6	.7	.6	.7	.0	.1	4.9	
2<5	0-3	.0	.1	.0	.3	.3	.2	.1	.0	.0	.7	1.7	
	4-10	.3	.2	.2	.8	.6	.7	.7	.7	.0		4.5	
	11-21	.1	.3	.1	.4	.4	.3	.5	.9	.0		3.0	
	22+	.0	.0	.3	.1	.1	.3	.2	.1	.0		1.2	
	TOT %	.4	.6	.6	1.6	1.4	1.6	1.7	1.6	.0	.7	10.3	
5<10	0-3	.4	.3	.2	.1	.1	.3	.3	.1	.0	.4	2.1	
	4-10	.6	.6	.5	.3	.6	1.0	1.1	.7	.0		5.3	
	11-21	.2	.0	.2	.5	.9	1.0	1.8	.9	.0		5.5	
	22+	.0	.0	.0	.0	.1	.1	.3	.3	.0		.6	
	TOT %	1.1	.8	.9	.9	1.6	2.4	3.4	2.0	.0	.4	13.6	
10+	0-3	.2	.2	.0	.1	.0	.3	.3	.1	.0	1.5	2.7	
	4-10	.6	1.0	.4	.6	.6	.8	1.8	1.4	.0		7.1	
	11-21	.6	.2	.2	.8	.7	1.9	1.1	.0			5.6	
	22+	.4	.0	.1	.0	.0	.0	.3	.0	.0		.9	
	TOT %	1.8	1.4	.7	.8	1.4	1.8	4.0	3.0	.0	1.5	16.3	
TOT OBS													940
TOT PCT													7.3 7.0 6.0 11.8 14.5 20.1 16.9 11.8 .0 4.6 100.0

AUGUST

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1860-1974AREA 0023 ONEKOTAN ISLAND SE
48.4N 155.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	43.2	1.9	1.9	4.5	21.3	8.4	3.9	.6	.6	.0	86.5	13.5	155
06009	32.9	.7	.7	13.2	11.2	13.2	6.6	1.3	.0	.0	79.6	20.4	152
12015	44.4	.0	5.1	6.0	10.3	6.8	3.4	.0	1.7	.0	77.8	22.2	117
18021	40.4	1.8	4.4	4.4	15.8	8.8	1.8	.9	.0	1.8	79.8	20.2	114
TOT	215	6	15	39	80	51	22	6	3	2	437	101	538
PCT	40.0	1.1	2.8	7.2	14.9	9.5	4.1	.7	.6	.4	81.2	18.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	52.7	3.7	4.0	10.0	11.7	18.0	300
06009	46.1	5.2	4.9	9.7	12.7	21.7	267
12015	45.7	6.0	5.2	13.9	16.5	12.7	267
18021	53.2	4.3	5.2	9.1	15.2	13.0	231
TOT	526	51	50	114	148	176	1065
PCT	49.4	4.8	4.7	10.7	13.9	16.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	43.2	52.3	62.6	23.8	11.6	155
06009	32.7	40.0	60.0	22.7	17.3	150
12015	44.2	49.6	66.4	13.3	20.4	113
18021	40.9	50.0	64.5	19.1	16.4	110
TOT	211	252	333	110	85	528
PCT	40.0	47.7	63.1	20.8	16.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	.4	.0	.0	1	.4
59/59	.0	.0	.0	.0	.0	1.3	6.7	10.3	41	18.4
50/54	.0	.0	.0	.9	.9	1.3	8.5	38.1	111	49.8
49/49	.0	.0	.0	.4	.0	2.2	24.2	.0	60	26.9
40/44	.0	.0	.0	.0	.0	.4	3.6	.0	9	4.0
35/39	.0	.0	.0	.0	.0	.0	.4	.0	1	.4
TOTAL	0	0	0	2	3	7	40	171	223	100.0
PCT	.0	.0	.0	.9	1.3	3.1	17.9	76.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAN	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
.9	3.1	.8	2.4	1.7	3.1	3.1	2.8	.0	.4
3.6	3.3	3.5	6.3	9.2	8.7	6.8	5.5	.0	.9
2.2	.4	.4	.6	2.7	2.6	11.8	4.8	.0	1.3
.0	.0	.0	.0	.7	1.7	1.2	.0	.0	.4
.0	.0	.0	.0	.3	.1	.0	.0	.0	.0
6.7	6.8	4.7	11.2	14.6	16.3	23.0	13.1	.0	3.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	69	64	60	52	45	41	37	52.2	297
06009	68	63	59	52	45	41	41	51.5	264
12015	61	59	55	50	43	40	39	49.3	276
18021	68	61	55	50	43	39	38	49.0	233
TOT	69	62	59	50	43	40	37	50.6	1070

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	3.2	4.8	22.6	69.4	92	62		
06009	.0	1.7	1.7	5.0	26.7	65.0	92	60		
12015	.0	1.9	.0	.0	11.1	87.0	94	54		
18021	.0	.0	.0	2.0	8.2	89.8	96	49		
TOT	0	2	3	7	40	173	93	225		

AUGUST

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1860-1974

TABLE 17

AREA 0023 ONEKOTAN ISLAND SE
48.4N 155.2EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIFF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	WD FOG
20/72	.0	.0	.0	.0	.0	.1	.0	.3	.0	3	.0	.4
17/19	.0	.0	.0	.0	.1	.0	.1	.0	.1	3	.1	.3
14/16	.0	.0	.0	.0	.4	.6	.6	.0	.0	13	.8	.9
11/13	.0	.0	.0	1.1	1.0	.6	.5	.0	.0	26	2.4	.9
9/10	.0	.0	.6	1.0	1.1	.8	.6	.0	.0	33	1.9	2.3
7/8	.0	.1	2.0	1.7	2.2	1.0	.3	.0	.0	57	5.1	2.2
6	.0	.3	.1	.4	.3	.1	.0	.0	.0	9	.1	1.0
5	.0	1.0	2.7	3.2	2.8	.8	.1	.0	.0	83	6.7	3.8
4	.1	1.0	2.9	3.8	2.9	.4	.0	.0	.0	86	7.0	4.2
3	.0	.4	1.0	1.7	1.1	.0	.0	.0	.0	33	1.1	3.0
2	.0	1.3	5.0	6.2	3.8	.5	.1	.0	.0	133	10.7	6.2
1	.0	.0	.9	2.0	1.9	.0	.0	.0	.0	38	2.3	2.5
0	.1	.8	5.7	6.0	2.3	.3	.0	.0	.0	119	7.9	7.2
-1	.0	.3	1.1	2.3	.3	.1	.0	.0	.0	32	1.3	2.8
-2	.1	1.0	2.5	1.1	.5	.0	.0	.0	.0	42	2.8	2.5
-3	.0	.1	.4	1.5	.0	.0	.0	.0	.0	16	.9	1.1
-4	.3	.9	1.0	.9	.4	.1	.0	.0	.0	28	1.3	2.3
-5	.3	.1	.9	.8	.0	.1	.0	.0	.0	17	.5	1.7
-6	.0	.0	.3	.0	.1	.0	.0	.0	.0	3	.1	.3
-7/-8	.3	.0	.1	.3	.0	.0	.0	.0	.0	5	.1	.5
-9/-10	.0	.3	.4	.0	.0	.0	.0	.0	.0	5	.3	.4
-11/-13	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.1	.0
TOTAL	10	59	218	267	167	44	2	1	1	787	421	366
PCT	1.3	7.5	27.7	33.9	21.2	5.4	2.4	.3	.1	100.0	53.5	46.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.0	.0	.0	.0	.3	.4	1.2	.0	.0	.0	.0	1.5
1-2	.0	.3	.3	.0	.0	.0	.6	.4	2.3	.4	.0	.0	.0	3.1
3-4	.0	1.3	.7	.0	.0	.0	2.2	.0	1.6	1.3	.0	.0	.0	2.9
5-6	.0	.4	1.4	.7	.0	.0	2.5	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	2.8	.7	.0	.0	6.0	.8	5.1	2.4	.0	.0	.0	8.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.4	.0	.0	.0	.4	.0	.8	.1	.0	.0	.0	.9
1-2	.0	1.6	.7	.0	.0	.0	2.3	.4	.8	1.5	.0	.0	.0	2.7
3-4	.0	.7	.4	.0	.0	.0	1.1	.0	1.5	1.4	.0	.0	.0	2.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.4	.8	.0	.0	.0	1.2
7	.0	.0	.4	.4	.0	.0	.8	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	1.8	1.2	.0	.0	5.3	.4	3.5	4.2	.4	.0	.0	8.4

PERIOD: (OVER-ALL) 1963-1974

AUGUST

AREA 0023 ONEKUTAN ISLAND SE
48.4N 155.2E

TABLE 16 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.1	.3	.0	.0	.0	2.4	.1	2.2	.0	.0	.0	.0	2.3
1-2	.0	1.7	2.2	.0	.0	.0	4.0	.8	3.1	2.5	.0	.0	.0	6.4
3-4	.0	.6	2.8	.3	.0	.0	3.7	.0	1.5	2.5	.1	.0	.0	4.2
5-6	.0	.6	1.1	.0	.0	.0	1.6	.0	.6	.2	.4	.0	.0	1.2
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.3	.9	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	7.0	.3	.0	.0	12.4	.9	7.4	5.9	1.7	.0	.0	15.9

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.7	2.2	.0	.0	.0	.0	2.9	.4	.5	.0	.0	.0	.0	.9	
1-2	.0	3.1	3.5	.0	.0	.0	6.6	.0	2.9	2.0	.0	.0	.0	4.9	
3-4	.0	1.7	5.5	.8	.0	.0	8.0	.0	1.2	2.1	.4	.0	.0	3.7	
5-6	.0	.8	1.1	.4	.0	.0	2.2	.0	.4	.5	.5	.0	.0	1.4	
7	.0	.0	2.0	.7	.0	.0	2.7	.0	.4	.5	.4	.0	.0	1.3	
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	7.8	12.1	2.1	.0	.0	22.7	.4	5.3	5.5	1.7	.0	.0	12.9	91.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.7	9.3	.8	.0	.0	.0	19.7	
1-2	1.5	15.8	13.1	.0	.0	.0	30.3	
3-4	.0	10.4	16.6	1.5	.0	.0	28.6	
5-6	.0	3.1	5.8	1.9	.0	.0	10.8	
7	.0	.4	4.6	2.3	.0	.0	7.3	
8-9	.0	.0	.4	1.2	.0	.0	1.5	
10-11	.0	.0	.0	.4	.0	.0	.4	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.4	.0	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.2	39.0	41.7	8.1	.0	.0	100.0	259

PERIOD: (OVER-ALL) 1952-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	9.4	13.7	5.3	2.8	1.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	4
6-7	.0	.8	6.8	7.1	4.6	2.8	.5	1.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	6
8-9	.0	.8	3.3	4.1	3.8	2.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	7
10-11	.0	1.8	.8	.5	1.8	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	5
12-13	.0	.0	2.3	.5	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	4
>13	.0	.0	.0	1.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	4
INDET	5.6	4.1	3.3	1.8	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	2
TOTAL	29	66	119	80	55	30	7	5	1	3	0	0	0	0	0	0	0	0	0	395	4
PCT	7.3	16.7	30.1	20.3	13.9	7.6	1.8	1.3	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1879-1974

AREA 0023 ONEKOTAN ISLAND SE
48.5N 155.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	1.9	.0	.0	.0	.0	.0	.0	1.9	1.4	.0	22.9	.0	1.9	.0	71.9
NE	22.9	.0	3.5	.0	.0	.0	.0	26.4	1.8	.0	30.0	1.8	.0	.0	40.1
E	32.1	.0	5.4	.0	.0	.0	.0	37.5	.0	.0	13.4	.0	1.8	.0	47.3
SE	21.8	.0	4.4	.0	.0	.0	.0	30.1	.0	.0	31.0	.0	.0	.0	38.9
S	6.8	.0	5.0	.0	.0	.0	.0	11.8	.0	1.2	38.1	.0	2.2	.0	46.7
SW	5.4	.0	2.4	.0	.0	.0	.0	7.8	1.2	.0	27.5	1.0	.2	.0	62.3
W	1.0	.0	3.2	.0	.0	.0	.0	4.2	.9	.0	30.4	.4	.0	.0	64.1
NW	.9	.0	2.2	.0	.0	.0	.0	3.1	.2	.0	14.9	.0	.0	.0	81.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	2.4	.0	.0	.0	.0	2.4	.0	.0	24.4	2.4	2.4	.0	68.3
TOT PCT	7.9	.0	3.4	.0	.0	.0	.0	11.4	.7	.1	26.3	.5	.7	.0	60.3
TOT OBS:	756														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	9.0	.0	2.1	.0	.0	.0	.0	11.1	.0	.0	26.9	1.3	.4	.0	60.3
06009	7.6	.0	4.5	.0	.0	.0	.0	12.1	.9	.0	24.2	.0	.4	.0	62.3
12015	7.8	.0	3.3	.0	.0	.0	.0	11.1	.0	.6	26.1	1.1	.6	.0	60.6
18021	5.7	.0	3.5	.0	.0	.0	.0	9.2	2.1	.0	26.2	.0	1.4	.0	61.0
TOT PCT	7.7	.0	3.3	.0	.0	.0	.0	11.1	.6	.1	25.8	.6	.6	.0	61.1
TOT OBS:	778														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.9	2.6	1.4	1.3	.0	.0		6.2	12.3	5.5	6.1	7.8	6.2	10.9	1.4	6.3	2.7
NE	1.3	3.0	1.3	.8	.2	.0		6.6	10.8	9.9	5.3	6.3	5.3	3.0	3.4	8.8	11.5
E	.7	2.8	2.8	.7	.1	.0		7.1	12.1	9.6	7.8	9.7	5.3	4.6	9.5	3.5	4.7
SE	.6	5.0	2.8	.4	.2	.0		9.0	10.3	6.8	11.4	8.0	16.3	5.1	5.4	7.4	12.7
S	.4	4.0	4.9	1.3	.4	.0		10.7	13.9	10.1	9.6	6.5	13.8	13.9	12.2	12.7	7.7
SW	1.3	5.2	6.1	2.0	.4	.0		15.0	13.2	19.5	14.9	17.7	7.0	14.4	14.2	12.3	17.7
W	3.4	10.6	8.8	2.9	.2	.0		23.9	11.2	23.7	26.8	23.9	30.6	28.5	27.4	25.4	21.3
NW	1.2	7.0	5.1	2.0	.0	.0		15.2	12.0	13.2	15.2	15.1	13.2	12.3	22.6	18.0	15.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4	300	245	85	11	0	746	4.4	.0	1.8	3.0	5.2	2.2	7.4	4.1	5.6	6.7
TOT OBS	105								11.4	114	99	116	89	108	74	71	75
TOT PCT	14.1	40.2	32.8	11.4	1.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12
N	1.9	2.4	1.8	.1	.0		6.2	12.3	5.8	7.1	7.0	4.5
NE	2.8	2.1	1.2	.5	.0		6.6	10.8	7.7	5.9	3.2	10.1
E	1.9	3.5	1.4	.2	.0		7.1	12.1	8.8	7.8	6.6	4.1
SE	3.5	4.3	.9	.3	.0		9.0	10.3	8.9	11.6	5.2	10.1
S	2.1	5.5	2.0	.9	.2		10.7	13.9	9.9	9.6	13.2	10.1
SW	3.3	7.6	3.2	.8	.1		15.0	13.2	17.4	13.0	14.3	15.1
W	9.0	12.0	3.7	1.2	.0		25.9	11.2	25.1	26.8	28.0	23.3
NW	5.0	6.2	3.0	.9	.0		15.2	12.0	14.1	14.3	16.5	16.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.4						4.4	.0	2.3	3.9	6.0	6.2
TOT OBS	254	325	129	36	2	746		11.4	213	205	182	146
TOT PCT	34.0	43.6	17.3	4.8	.3		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1879-1974

AREA 0023 ONEKOTAN ISLAND SE
48.5N 155.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.3	10.8	36.2	35.7	13.6	1.4	.0	12.2	100.0	213
06009	3.9	7.3	42.4	33.2	11.2	2.0	.0	11.7	100.0	205
12015	6.0	10.4	36.8	34.6	10.4	1.6	.0	11.3	100.0	182
18021	6.2	10.3	47.3	26.0	9.6	.7	.0	10.2	100.0	146
TOT	33	72	300	245	85	11	0	11.4		746
PCT	4.4	9.7	40.2	32.8	11.4	1.5	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.0	.7	1.6	3.6		5.3
NE	.7	.3	1.4	4.0		6.7
E	.6	.4	.8	4.8		6.9
SE	.3	.1	.4	4.5		7.5
S	.8	.6	2.7	6.9		6.8
SW	2.2	2.2	5.4	9.1		6.1
W	5.6	3.6	3.9	9.7		5.2
NW	4.3	2.8	3.6	4.9		4.8
VAR	.0	.0	.0	.0		.0
CALM	.9	.9	.6	3.0		5.9
TOT OBS	81	54	95	237	467	5.9
TOT PCT	17.3	11.6	20.3	50.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.5	.0	.4	.4	1.0	1.3	.2	.0	.0	.0	3.2	
NE	1.8	.0	.5	1.1	.6	.8	.1	.1	.2	.0	1.2	
E	.5	.0	.2	.6	1.6	2.2	.2	.4	.0	.0	1.1	
SE	2.3	.0	.0	.1	.5	1.2	.5	.2	.0	.0	.5	
S	4.3	.0	.0	.3	1.0	1.8	.7	.0	.0	.0	3.0	
SW	5.0	.1	.6	1.2	2.8	2.4	.7	.1	.2	.2	5.7	
W	5.8	.2	.0	1.3	2.6	1.0	.0	.2	.0	.0	11.7	
NW	1.4	.0	.4	.8	2.4	2.0	.0	.2	.0	.0	8.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3	.0	.0	.4	.4	.9	.4	.0	.2	.0	1.7	
TOT OBS	112	1	10	29	69	63	13	5	3	1	170	467
TOT PCT	24.0	.2	2.1	6.2	12.8	13.5	2.8	1.1	.6	.2	36.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
> OR >6500	.9	.9	.9	.9	.9	.9	.9	.9
> OR >5000	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9
> OR >3500	3.4	4.7	4.9	4.9	4.9	4.9	4.9	4.9
> OR >2000	9.2	16.3	18.0	18.5	18.5	18.5	18.7	18.7
> OR >1000	14.6	25.5	29.4	30.0	30.3	30.3	30.9	30.9
> OR >600	16.7	29.8	34.8	35.8	36.3	36.3	36.9	36.9
> OR >300	16.7	30.0	35.6	36.9	37.8	38.0	38.6	38.6
> OR >150	16.7	30.0	35.8	37.1	38.0	38.2	39.1	39.1
> OR >0	17.6	32.0	38.8	41.4	43.3	49.6	59.9	62.4
TOTAL	82	149	181	193	202	231	279	291

TOTAL NUMBER OF OBS: 466

PCT FREQ NH <5/8: 37.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.7	5.9	9.1	4.2	7.3	4.6	4.0	8.1	24.4	21.8	505

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1879-1974

SEPTEMBER

AREA 0023 ONEKOTAN ISLAND SE
48.5N 155.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	1.0	1.7	.8	.7	.3	.0	.0	.0	.0	4.5	
	NO PCP	1.2	1.6	.6	1.3	3.0	3.7	4.4	1.5	.0	1.1	18.4	
	TOT %	1.3	2.6	2.3	2.0	3.7	4.0	4.4	1.5	.0	1.1	23.0	
1/2<1	PCP	.0	.1	.2	.0	.1	.1	.1	.1	.0	.0	.8	
	NO PCP	.0	.3	.1	.0	.4	.1	.3	.3	.0	.0	2.0	
	TOT %	.0	.6	.3	.0	.5	.3	.7	.4	.0	.0	2.8	
1<2	PCP	.0	.3	.1	.5	.1	.0	.5	.2	.0	.0	1.7	
	NO PCP	.3	.0	.1	.5	.2	.3	.3	.6	.0	.0	2.4	
	TOT %	.3	.3	.3	1.1	.3	.3	.8	.8	.0	.0	4.1	
2<3	PCP	.0	.5	.5	.4	.0	.3	.1	.1	.0	.0	2.0	
	NO PCP	.8	.3	.6	.3	.5	1.0	1.5	.8	.0	.9	6.9	
	TOT %	.8	1.0	1.1	.7	.5	1.3	1.6	1.0	.0	.9	8.9	
3<10	PCP	.0	.0	.3	.3	.3	.3	.3	.0	.0	.1	1.6	
	NO PCP	1.0	1.0	1.1	1.4	2.6	3.1	3.6	3.5	.0	.8	18.2	
	TOT %	1.0	1.0	1.4	1.7	2.9	3.4	3.9	3.5	.0	.9	19.8	
10+	PCP	.0	.1	.0	.4	.0	.3	.0	.0	.0	.0	.8	
	NO PCP	3.8	1.9	2.1	2.0	2.8	7.0	11.1	7.8	.0	2.4	40.6	
	TOT %	3.8	2.1	2.1	2.4	2.8	7.2	11.1	7.8	.0	2.4	41.4	
TOT OBS													749
TOT PCT		6.9	7.4	7.5	8.0	10.8	16.6	22.4	19.0	.0	5.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.5	1.0	.1	.1	.1	.7	1.1	.0	.0	1.1	4.8	
	4-10	.9	1.5	1.2	1.7	1.9	1.5	4.9	1.7	.0		15.4	
	11-21	.4	.4	1.0	.7	1.9	1.5	2.4	.6	.0		8.8	
	22+	.3	.3	.3	.1	.2	.7	.7	.0	.0		2.6	
	TOT %	2.1	3.3	2.6	2.7	4.1	4.4	9.1	2.3	.0	1.1	31.6	
1/2<1	0-3	.0	.0	.0	.1	.1	.0	.1	.1	.0	.0	.5	
	4-10	.0	.3	.1	.0	.1	.1	.3	.1	.0		1.1	
	11-21	.0	.8	.1	.1	.3	.1	.1	.1	.0		1.0	
	22+	.0	.2	.1	.1	.0	.0	.1	.0	.0		.5	
	TOT %	.0	.5	.3	.4	.5	.3	.7	.4	.0	.0	3.2	
1<2	0-3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	
	4-10	.1	.0	.1	.4	.1	.1	.2	.4	.0		1.4	
	11-21	.0	.1	.1	.4	.3	.3	.0	.1	.0		1.3	
	22+	.1	.0	.0	.1	.1	.1	.3	.2	.0		1.1	
	TOT %	.4	.1	.3	1.1	.5	.5	.7	.7	.0	.0	4.3	
2<3	0-3	.0	.0	.0	.0	.0	.2	.1	.1	.0	.7	1.1	
	4-10	.4	.4	.1	.6	.1	.7	.3	.8	.0		3.4	
	11-21	.0	.2	.9	.2	.4	.4	1.3	.7	.0		4.1	
	22+	.2	.1	.1	.1	.3	.2	.1	.2	.0		1.4	
	TOT %	.7	.8	1.1	.9	.9	1.5	1.9	1.7	.0	.7	10.0	
3<10	0-3	.0	.1	.3	.2	.1	.2	.5	.0	.0	.7	2.1	
	4-10	.1	.3	.5	.9	1.0	.9	1.3	1.5	.0		6.4	
	11-21	.3	.2	.3	.7	.1	1.2	1.5	1.1	.0		5.3	
	22+	.4	.2	.2	.1	1.2	1.2	.6	.7	.0		4.5	
	TOT %	.8	.8	1.3	1.8	2.4	3.5	3.9	3.3	.0	.7	18.4	
10+	0-3	.3	.1	.3	.0	.0	.3	1.3	.9	.0	1.9	5.3	
	4-10	.9	.8	.8	1.3	.8	2.0	3.6	2.7	.0		12.9	
	11-21	.7	.2	.4	.8	1.4	2.4	3.5	2.3	.0		11.8	
	22+	.3	.1	.1	.0	.0	.3	1.0	.7	.0		2.6	
	TOT %	2.3	1.1	1.6	2.3	2.3	4.9	9.6	6.6	.0	1.9	32.6	
TOT OBS													729
TOT PCT		6.2	6.6	7.2	9.2	10.7	19.1	25.7	19.0	.0	4.4	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1879-1974

AREA 0023 ONEKOTAN ISLAND SE
48.3N 155.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	23.1	.0	1.3	8.3	10.9	17.3	2.6	.6	1.3	.6	66.0	34.0	156
06009	20.8	.0	3.5	6.3	12.5	10.4	5.6	.7	.7	.0	60.4	39.6	144
12015	24.1	.0	1.7	3.4	12.1	11.2	1.7	.0	.0	.0	54.3	45.7	116
18021	24.0	1.3	1.3	5.3	16.0	14.7	.0	4.0	.0	.0	66.7	33.3	75
TOT	112	1	10	30	61	66	14	5	3	1	303	188	491
PCT	22.8	.2	2.0	6.1	12.4	13.4	2.9	1.0	.6	.2	61.7	38.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	26.5	3.9	5.4	8.6	16.3	39.3	257
06009	27.8	3.3	3.9	7.3	19.2	39.2	245
12015	28.1	1.5	4.4	12.3	15.8	37.9	203
18021	31.1	1.8	3.0	12.8	20.1	31.1	164
TOT	244	24	38	86	154	325	869
PCT	28.1	2.8	4.1	9.9	17.7	37.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	23.2	27.8	42.4	25.8	31.8	151
06009	20.9	24.5	34.5	28.1	37.4	139
12015	26.2	28.0	41.1	18.7	40.2	107
18021	24.6	27.5	44.9	30.4	24.6	69
TOT	109	125	187	119	160	466
PCT	23.4	26.8	40.1	25.5	34.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.4	.0	.4	.0	2	.9
55/59	.0	.0	.0	.4	.4	1.3	4.9	4.0	25	11.2
50/54	.0	.0	.0	.0	.4	5.4	18.8	26.0	113	50.7
45/49	.0	.0	.0	.0	.4	.9	9.0	17.5	62	27.8
40/44	.0	.0	.0	.0	.0	.4	1.3	5.4	16	7.2
35/39	.0	.0	.0	.0	.0	.0	.0	2.2	5	2.2
TOTAL	0	0	0	1	4	18	77	123	223	100.0
PCT	.0	.0	.0	.4	1.8	8.1	34.5	55.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	.0	.4	.0	.0	.0	.4	.0	.0
55/59	.7	.1	.0	2.4	1.9	1.7	3.1	1.3	.0	.0
50/54	4.5	1.2	6.5	1.8	6.3	6.8	12.9	8.4	.0	2.2
45/49	1.8	.9	1.3	.6	3.8	7.0	8.1	4.4	.0	.0
40/44	.3	.0	.0	.1	.3	3.1	2.2	1.0	.0	.0
35/39	.0	.9	.0	.1	.3	.9	.0	.0	.0	.0
TOTAL	7.3	3.1	7.8	5.4	12.7	19.5	26.3	15.6	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	68	64	59	51	43	41	37	50.9	255
06009	66	63	57	50	43	39	39	50.2	238
12015	61	57	55	48	43	37	37	48.2	204
18021	55	54	54	48	41	39	39	48.4	164
TOT	68	61	57	50	43	39	37	49.6	861

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.4	2.7	17.6	28.4	50.0	68	74
06009	.0	.0	.0	5.2	37.9	56.9	91	58
12015	.0	.0	2.0	2.0	30.0	66.0	93	50
18021	.0	.0	2.4	2.4	46.3	48.8	90	41
TOT	0	1	4	18	77	123	90	223

SEPTEMBER

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1879-1974

TABLE 17

AREA 0023 ONEKOTAN ISLAND SE
48.9N 159.0E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	M FOG	MO FOG
14/16	.0	.0	.0	.0	.1	.1	.1	.0	3	.1	.3
11/13	.0	.0	.0	.4	1.0	.6	.4	.3	19	.4	2.2
9/10	.0	.0	.7	.3	1.0	.6	.1	.0	19	.6	2.1
7/8	.0	.0	1.8	1.5	1.9	.3	.3	.0	42	1.3	4.6
6	.0	.0	.8	.6	.3	.1	.0	.0	13	.4	1.4
5	.0	.1	1.4	2.1	2.4	.7	.1	.0	49	1.9	4.9
4	.0	.6	3.3	3.9	2.2	1.4	.0	.0	82	3.6	7.8
3	.0	.1	1.7	1.7	1.0	.0	.0	.0	32	1.1	3.3
2	.0	1.3	3.3	5.4	3.6	.0	.0	.0	98	2.8	10.8
1	.1	1.3	2.6	3.6	.7	.0	.0	.0	60	2.5	5.8
0	.1	1.1	7.8	4.3	2.4	.3	.0	.0	119	4.2	11.8
-1	.0	.1	2.4	2.2	.4	.0	.0	.0	37	1.3	3.9
-2	.0	.8	3.3	3.5	.7	.0	.0	.0	60	3.2	5.1
-3	.3	.3	.7	.8	.1	.0	.0	.0	16	.3	1.9
-4	.3	.7	2.2	1.1	.0	.0	.0	.0	31	1.1	3.2
-5	.0	.3	1.3	.3	.0	.0	.0	.0	13	.6	1.3
-6	.0	.3	.3	.1	.0	.0	.0	.0	5	.0	.7
-7/-8	.0	.6	.4	.3	.0	.0	.0	.0	9	.4	.8
-9/-10	.1	.4	.1	.1	.0	.0	.0	.0	7	.3	.7
-11/-13	.3	.6	.0	.0	.0	.0	.0	.0	6	.0	.8
-14/-16	.3	.1	.0	.0	.0	.0	.0	.0	3	.0	.4
TOTAL	11	62	248	232	129	29	8	2	719	187	532
PCT	1.5	8.6	34.2	32.3	17.9	4.0	1.1	.3	100.0	26.0	74.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.8	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.8
1-2	.0	.3	.9	.0	.0	.0	1.3	.0	.8	.1	.0	.0	.0	.8
3-4	.0	.0	.7	1.9	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.6	.6	.0	.0	.0	1.2	.0	.0	.8	.0	.0	.0	.8
7	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	.5
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.3	.3	.3	.1	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	2.2	2.3	.0	.0	6.5	.0	1.9	1.3	.9	.4	.0	4.6

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.7	.0	.0	.0	.0	.7	.3	1.0	.0	.0	.0	.0	1.3
1-2	.3	.3	.6	.0	.0	.0	1.2	.0	1.6	1.5	.0	.0	.0	3.1
3-4	.0	1.0	.3	.3	.0	.0	1.6	.0	.3	.5	.0	.0	.0	.8
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.8	.0	.0
17-19	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.9	2.0	1.4	.3	.0	6.0	.3	2.9	2.8	.2	.0	.0	6.2

PERIOD: (OVER-ALL) 1963-1974

SEPTEMBER

AREA 0023 ONEKOTAN ISLAND SE
48.3N 159.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.7	.0	.0	.0	.0		.7	.4	1.8	.0	.0	.0	.0		2.2
1-2	.3	2.3	.9	.0	.0	.0		3.5	.1	3.6	1.4	.0	.0	.0		5.1
3-4	.0	1.2	1.9	.0	.0	.0		3.1	.1	.8	3.9	.0	.0	.0		4.8
5-6	.0	.0	1.7	.8	.0	.0		2.5	.0	.3	2.3	.8	.4	.0		3.9
7	.0	.3	.3	.8	.0	.0		1.3	.0	.0	1.4	1.8	.0	.0		3.2
8-9	.0	.0	1.0	.0	.0	.0		1.0	.0	.0	.3	.1	.0	.0		.4
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.3	.0	.0		.3
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	4.3	5.8	1.6	.0	.0		12.2	.6	6.6	9.3	3.0	.4	.0		19.9

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	1.3	1.4	.0	.0	.0	.0		2.7	.0	.5	.0	.0	.0	.0		.5	
1-2	.3	2.1	2.1	.0	.0	.0		4.5	.3	2.9	.8	.0	.0	.0		4.0	
3-4	.3	.7	4.2	.3	.0	.0		5.5	.0	.7	2.7	.1	.0	.0		3.5	
5-6	.0	1.0	3.4	.3	.3	.0		5.0	.0	1.1	1.7	.3	.0	.0		3.1	
7	.0	.0	.9	.9	.0	.0		1.9	.0	.1	2.4	1.1	.0	.0		3.6	
8-9	.0	.0	.5	1.7	.0	.0		2.2	.0	.0	1.2	.9	.0	.0		2.1	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.3	.0		.3	.0	.0	.0	.3	.0	.0		.3	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	1.8	5.2	11.1	3.3	.6	.0		22.0	.3	3.2	8.8	2.8	.0	.0		17.2	94.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.4	7.7	.0	.0	.0	.0	15.2	
1-2	1.3	13.8	8.4	.0	.0	.0	23.6	
3-4	.3	4.7	14.1	7.7	.0	.0	21.9	
5-6	.0	3.0	12.1	2.4	.7	.0	18.2	
7	.0	.7	5.1	6.1	.0	.0	11.8	
8-9	.0	.3	3.4	3.4	.3	.0	7.4	
10-11	.0	.0	.0	.3	.3	.0	.7	
12	.0	.0	.0	.0	.3	.0	.7	
13-16	.0	.0	.3	.0	.0	.0	.3	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.1	30.3	43.4	15.5	1.7	.0	100.0	297

PERIOD: (OVER-ALL) 1961-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	7.3	8.6	7.5	3.6	1.3	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	142	4
6-7	.2	.4	3.6	6.4	4.9	2.4	.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	6
8-9	.0	.2	1.1	3.9	4.5	2.1	1.9	.4	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	70	7
10-11	.0	1.3	.6	1.3	.6	1.3	1.3	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	7
12-13	.0	.0	1.9	1.3	.2	.4	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	6
15-19	.0	.0	.0	.4	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
INDET	4.5	4.5	5.8	3.6	1.7	1.1	.0	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	4
TOTAL	29	84	101	114	73	41	23	9	7	4	1	0	0	0	0	0	0	0	0	466	5
PCT	6.2	13.7	21.7	24.3	15.7	8.8	4.9	1.9	1.5	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1900-1974AREA 0023 ONEKOTAN ISLAND SE
48.4N 155.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	7.7	.0	.0	.0	3.1	.0	.0	10.8	3.1	.0	3.1	.0	.0	.0	83.1
NE	10.2	.0	15.7	.0	.0	.0	.0	23.9	.0	.0	8.3	.0	.0	.0	65.7
E	20.7	.0	2.0	.0	.0	.0	.0	22.7	7.3	.0	6.7	.0	.0	.0	63.3
SE	27.4	3.8	9.1	.0	.0	.0	.0	38.0	.5	.0	8.7	.0	.0	.0	52.9
S	20.4	.0	7.5	.0	.0	.0	.0	26.8	8.9	.0	15.7	.0	.0	.0	48.6
SW	5.3	.0	2.0	.0	.0	.0	.0	6.5	2.2	.0	12.0	.0	.0	1.1	78.2
W	.6	.6	2.2	.0	.0	.0	.0	3.4	4.3	.0	5.1	.0	.6	.5	86.2
NW	4.5	.0	.3	.0	1.0	.0	.0	5.8	4.3	.0	1.0	.0	.0	.0	88.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0	88.9
TOT PCT	8.8	.5	3.5	.0	.3	.0	.0	12.6	4.0	.0	7.5	.0	.2	.3	75.4
TOT OBS:	602														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	8.2	.5	3.3	.0	.5	.0	.0	12.1	1.1	.0	7.1	.0	.5	.0	79.1
06009	10.7	.7	3.3	.0	.0	.0	.0	13.3	6.7	.0	8.7	.0	.0	.7	70.7
12015	8.5	.0	3.6	.0	.6	.0	.0	12.7	6.1	.0	6.7	.0	.0	.6	73.9
18021	7.2	.8	4.0	.0	.0	.0	.0	12.0	3.2	.0	7.2	.0	.0	.0	77.6
TOT PCT TOT OBS:	8.7 622	.5	3.5	.0	.3	.0	.0	12.5	4.2	.0	7.4	.0	.2	.3	75.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	1.8	2.7	.4	.4	.0		5.3	15.2		5.1	5.1	7.5	2.9	5.6	5.8	2.7	8.0
NE	.2	2.1	1.2	1.3	.3	.0		5.0	15.9		7.3	2.6	4.2	4.4	5.1	6.7	5.0	2.0
E	.4	1.1	1.8	2.4	.8	.0		6.4	20.4		7.5	5.1	6.8	5.9	7.5	3.3	5.4	6.0
SE	.3	2.0	3.4	2.9	1.5	.0		10.0	20.3		6.5	15.4	13.0	16.9	9.9	6.7	8.5	5.0
S	.2	3.4	5.4	3.6	.7	.0		13.3	18.4		20.2	10.9	14.3	2.2	13.4	14.2	11.5	6.0
SW	.7	4.1	9.6	3.1	.6	.0		18.0	16.1		19.6	22.4	10.7	25.0	15.9	11.7	21.5	25.0
W	.7	4.9	10.4	6.9	1.6	.0		24.6	18.6		18.5	20.5	22.4	28.7	25.5	31.7	30.0	28.0
NW	.5	4.1	5.0	4.3	1.0	.0		15.1	18.0		13.2	17.9	17.2	14.0	14.8	20.0	12.3	16.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0		2.2	.0	3.9	.0	2.2	.0	3.1	4.0
TOT OBS	24	107	180	114	31	0	456		17.6		93	39	77	34	93	30	65	25
TOT PCT	5.3	23.5	39.5	25.0	6.8	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	.6	2.9	1.3	.5	.0		5.3	15.2	5.1	6.1	5.7	4.2	
NE	1.3	1.5	1.4	.7	.2		5.0	15.9	5.9	4.3	5.5	4.2	
E	.8	2.2	.8	2.5	.0		6.4	20.4	6.8	6.5	6.5	5.6	
SE	1.1	3.0	4.1	1.1	.7		10.0	20.3	9.1	14.2	9.1	7.5	
S	.8	6.3	3.7	2.1	.4		13.3	18.4	17.4	10.6	13.6	10.0	
SW	1.6	8.4	6.4	1.6	.0		18.0	16.1	20.5	15.1	14.8	22.5	
W	2.7	8.1	9.0	4.4	.4		24.6	18.6	19.1	24.3	27.0	29.4	
NW	1.6	5.7	4.4	3.3	.1		15.1	18.0	14.6	16.2	16.1	13.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.2						2.2	.0	1.5	2.7	1.6	3.3	
TOT OBS	98	174	142	74	8	456		17.6	132	111	123	90	
TOT PCT	12.7	38.2	31.1	16.2	1.8		100.0		100.0	100.0	100.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1900-1974AREA 0023 ONEKOTAN ISLAND SE
48.4N 155.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.5	1.5	23.5	41.7	25.0	6.8	.0	18.0	100.0	132
06009	2.7	2.7	22.5	31.5	32.4	8.1	.0	18.7	100.0	111
12015	1.6	2.4	26.8	39.0	24.4	5.7	.0	17.1	100.0	123
18021	3.3	6.7	20.0	46.7	16.7	6.7	.0	16.4	100.0	90
TOT	10	14	107	180	114	31	0	17.6		456
PCT	2.2	3.1	23.5	39.5	25.0	6.8	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSD	TOTAL OBS	MEAN CLOUD COVER
N	.7	.6	1.7	2.3		6.0
NE	.3	.6	.7	2.5		6.2
E	.2	.0	1.0	4.8		7.5
SE	.6	.1	1.7	6.3		7.2
S	.7	1.5	2.7	7.6		6.6
SW	3.4	2.8	7.1	5.3		5.5
W	7.7	6.3	7.9	4.4		4.3
NW	3.5	4.3	5.6	3.3		4.8
VAR	.0	.0	.0	.0		.0
CALM	.4	.2	.2	.6		5.1
TOT OBS	84	78	136	178	476	5.3
TOT PCT	17.6	16.4	28.6	37.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH) >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.3	.0	.5	.8	.9	.8	.0	.0	.0	.4	1.7	
1.1	.1	.0	.3	.5	.5	.2	.0	.0	.0	1.6	
.9	.6	.4	.5	1.7	1.4	.2	.0	.0	.0	.2	
1.3	.2	1.2	1.2	2.1	1.4	.0	.0	.0	.0	1.3	
3.1	.0	.5	1.2	1.5	1.9	1.1	.0	.2	.0	3.0	
1.7	.0	.6	1.2	2.1	4.3	1.2	.0	.3	.2	7.0	
1.4	.0	.5	1.7	2.3	3.4	.7	.0	.0	.0	10.3	
.4	.2	.4	2.2	1.6	2.3	.3	.0	.2	.2	9.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.2	.0	.0	.2	.0	.4	.0	.0	.0	.0	.6	
49	5	19	44	61	78	18	0	3	4	195	476
10.3	1.1	4.0	9.2	12.8	16.4	3.8	.0	.6	.8	41.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH) >4/8 AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >5000	.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >3500	2.3	5.0	5.2	5.2	5.2	5.2	5.2	5.2
= OR >2000	10.0	17.7	19.8	20.7	20.7	20.7	21.1	21.1
= OR >1000	14.8	25.9	31.7	33.2	33.6	33.6	34.0	34.0
= OR >600	18.0	33.0	40.5	42.4	42.8	42.8	43.2	43.2
= OR >300	18.2	33.2	42.6	45.9	46.6	46.8	47.2	47.2
= OR >150	18.4	33.8	43.2	47.0	47.6	47.8	48.2	48.2
= OR >0	18.4	34.9	46.8	51.4	52.8	54.5	58.0	58.7
TOTAL	88	167	224	246	253	261	278	281

TOTAL NUMBER OF OBS: 479

PCT FREQ NH <5/8: 41.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	DBSD	TOTAL OBS
	5.9	9.3	12.6	9.4	6.6	7.0	6.2	11.1	26.8	9.4	530

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1900-1974

OCTOBER

AREA 0023 ONEKOTAN ISLAND SE
48.4N 155.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.2	.2	.5	.3	*	.2	.2	.0	.0	1.5	
	NN PCP	.0	.2	.1	.1	1.2	1.5	.9	.0	.0	.2	4.2	
	TOT %	.0	.3	.3	.6	1.5	1.5	1.1	.2	.0	.2	5.7	
1/2<1	PCP	.0	*	.1	.4	.6	.2	.0	.0	.0	.0	1.3	
	NN PCP	.0	.0	.1	.2	.0	.1	.3	.0	.0	.0	.7	
	TOT %	.0	*	.3	.6	.6	.3	.3	.0	.0	.0	2.0	
1<2	PCP	.2	.1	.3	1.1	.4	*	.1	*	.0	.0	2.3	
	NN PCP	.0	*	.6	.5	.3	.5	.4	.3	.0	.0	2.7	
	TOT %	.2	.1	1.0	1.6	.7	.5	.5	.4	.0	.0	5.0	
2<5	PCP	.3	.8	.5	.9	.8	.4	.3	.6	.0	.0	4.5	
	NN PCP	.7	.4	1.0	.5	1.0	1.7	2.7	1.0	.0	.2	9.0	
	TOT %	1.0	1.3	1.5	1.4	1.8	2.1	3.0	1.5	.0	.2	13.6	
5<10	PCP	.2	*	.3	.3	.9	.5	.2	.2	.0	.0	2.5	
	NN PCP	.6	.8	1.5	1.8	2.4	5.2	6.8	4.8	.0	.3	24.3	
	TOT %	.8	.8	1.8	2.1	3.3	5.7	7.0	5.0	.0	.3	26.8	
10+	PCP	.0	.0	.0	.2	.2	.0	.2	.0	.0	.0	.5	
	NN PCP	3.6	1.9	1.5	2.1	3.5	8.5	15.1	9.3	.0	.8	46.4	
	TOT %	3.6	1.9	1.5	2.3	3.7	8.5	15.3	9.3	.0	.8	46.9	
TOT OBS													
TOT PCT													
		5.4	4.5	6.3	8.5	11.6	18.6	27.1	16.4	.0	1.5	100.0	597

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.2	.2	.0	.0	.2	.7	
	4-10	.0	.0	.0	.2	.5	.1	.4	.2	.0	.0	1.4	
	11-21	.0	.2	.4	.3	1.1	1.3	.7	.0	.0	.0	4.1	
	22+	.0	.2	.0	.2	.2	.3	.0	.0	.0	.0	.9	
	TOT %	.0	.5	.4	.8	1.8	1.9	1.3	.2	.0	.2	7.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.5	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.1	.3	.6	.6	.3	.0	.0	.0	.0	1.8	
	TOT %	.0	.1	.3	.8	.6	.4	.3	.0	.0	.0	2.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.3	.6	.0	.2	.0	.0	.0	.0	1.1	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	22+	.2	.2	.7	1.9	.6	.1	.2	.0	.0	.0	3.9	
	TOT %	.2	.2	1.0	2.6	.8	.3	.2	.0	.0	.0	5.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.5	
	4-10	.0	.0	.0	.2	.2	.6	.3	.0	.0	.0	1.4	
	11-21	.2	.5	.0	.2	.5	.6	1.7	.5	.0	.0	4.1	
	22+	.6	.6	1.0	.5	2.0	.9	1.1	1.0	.0	.0	7.7	
	TOT %	.7	1.1	1.0	1.0	2.7	2.2	3.1	1.7	.0	.2	13.7	
5<10	0-3	.0	.2	.4	.1	.2	.1	.3	.1	.0	.5	1.8	
	4-10	.2	.6	.3	.5	.6	.6	.5	.0	.0	.0	3.9	
	11-21	.3	.0	.5	1.4	1.5	3.9	2.0	1.4	.0	.0	10.9	
	22+	.0	.1	.6	.3	1.0	1.3	4.0	3.1	.0	.0	10.5	
	TOT %	.6	.9	1.9	2.3	3.3	5.8	6.8	5.2	.0	.5	27.1	
10+	0-3	.0	.0	.0	.2	.0	.2	.2	.0	.0	.9	1.8	
	4-10	1.7	1.6	.5	.5	2.2	2.6	3.5	3.4	.0	.0	15.9	
	11-21	2.3	.5	.9	1.4	1.8	3.9	6.3	3.4	.0	.0	20.5	
	22+	.0	.5	.2	.7	.2	.5	2.5	1.5	.0	.0	6.2	
	TOT %	4.0	2.6	1.7	2.8	4.2	7.3	12.5	8.3	.0	.9	44.4	
TOT OBS													
TOT PCT													
		5.5	5.2	6.2	10.2	13.3	17.9	24.2	15.6	.0	1.8	100.0	439

OCTOBER

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1900-1974AREA 0023 ONEKOTAN ISLAND SE
48.4N 155.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	7.6	2.3	3.8	9.5	11.4	19.0	4.4	.0	.6	.0	58.9	41.1	158
06009	12.7	.8	4.8	9.5	12.7	15.1	2.4	.0	.8	1.6	60.3	39.7	126
12015	11.9	.0	1.4	9.5	11.9	15.1	4.0	.0	.8	.0	54.8	45.2	126
18021	9.3	.0	5.8	7.0	16.3	12.8	3.5	.0	.0	2.3	57.0	43.0	86
TOT	51	5	19	45	63	79	18	0	3	4	287	209	496
PCT	10.3	1.0	3.8	9.1	12.7	15.9	3.6	.0	.6	.8	57.9	42.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	6.0	1.6	5.9	10.4	24.2	52.2	182
06009	7.3	2.6	6.0	9.9	23.2	51.0	151
12015	5.9	1.8	8.2	19.4	25.9	38.8	170
18021	3.9	2.4	3.1	16.5	33.1	40.9	127
TOT	37	13	37	88	165	290	630
PCT	5.9	2.1	5.9	14.0	26.2	46.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	7.8	15.6	32.5	27.9	39.6	154
06009	13.2	19.8	33.9	26.4	39.7	121
12015	11.6	14.9	39.7	19.8	40.5	121
18021	9.6	15.7	30.1	30.1	39.8	83
TOT	50	79	164	124	191	479
PCT	10.4	16.5	34.2	25.9	39.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.4	.0	.0	.4	2	.8
50/54	.0	.0	.8	.4	.4	.4	5.9	6.3	36	14.2
45/49	.0	.0	.0	.0	1.8	4.7	8.7	20.9	91	36.0
40/44	.0	.0	.0	.0	1.6	9.1	11.5	19.8	106	41.9
35/39	.0	.0	.0	.0	.0	2.0	2.4	2.8	18	7.1
TOTAL	0	0	2	1	10	41	72	127	253	100.0
PCT	.0	.0	.8	.4	4.0	16.2	28.5	50.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.4	.0	.0	.0	.0	.1	.3	.0	.0	.0
.7	.9	1.4	2.5	4.0	2.2	2.1	.6	.0	.0
1.8	1.4	1.6	4.6	3.2	8.9	11.3	3.3	.0	.0
3.3	1.3	5.0	1.8	.9	4.8	15.3	9.5	.0	.0
.0	.0	.0	.4	.0	.8	4.1	1.9	.0	.0
6.1	3.6	8.0	9.3	8.0	16.8	33.0	15.2	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	62	57	54	40	37	35	32	45.6	178
06009	59	57	52	45	38	36	32	44.6	153
12015	63	54	50	44	37	32	32	44.1	164
18021	54	52	50	43	37	34	34	42.9	126
TOT	63	56	52	45	37	34	32	44.4	621

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.9	7.1	20.0	31.4	38.6	85	70		
06009	.0	1.5	.0	19.4	26.9	52.2	87	67		
12015	.0	.0	4.3	13.0	33.3	49.3	88	69		
18021	.0	.0	4.0	10.0	20.0	66.0	90	50		
TOT	0	3	10	41	73	129	87	256		

OCTOBER

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1900-1974

TABLE 17

AREA 0023 ONEKOTAN ISLAND SE
48.4N 155.1EPCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	29 32	33 36	37 40	41 44	43 48	49 52	53 56	57 60	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.2	.0	.2	.0	2	.0	.4
11/13	.0	.0	.0	.0	.4	.2	.4	.4	7	.4	.9
9/10	.0	.0	.0	.0	.2	.4	.0	.2	4	.0	.7
7/8	.0	.0	.0	.5	1.1	.7	.2	.0	14	.4	2.2
6	.0	.0	.0	.2	.4	.2	.0	.0	4	.0	.7
5	.0	.0	.0	.9	1.3	.7	.9	.0	21	.5	3.3
4	.0	.0	.0	.5	3.1	1.3	.2	.0	28	.9	4.2
3	.0	.0	.0	1.3	2.2	.7	.4	.0	25	.4	4.2
2	.0	.0	.5	2.7	4.5	.5	.5	.0	34	1.8	8.1
1	.0	.0	1.3	2.7	1.1	1.6	.0	.0	37	.0	6.8
0	.0	.0	.9	6.0	6.6	1.5	.2	.0	83	.2	15.0
-1	.0	.0	.9	3.1	2.4	.4	.2	.0	38	.2	6.8
-2	.0	.0	1.3	4.0	4.9	1.1	.0	.0	62	.9	10.4
-3	.0	.0	2.0	3.8	.7	.5	.0	.0	39	.5	6.6
-4	.2	.0	2.0	1.8	1.3	.2	.0	.0	30	.4	5.1
-5	.0	.4	1.8	3.5	2.2	.5	.0	.0	46	.0	8.4
-6	.2	.2	1.5	.4	.9	.4	.0	.0	19	.4	3.1
-7/-8	.2	.5	.9	.9	.4	.0	.0	.0	16	.2	2.7
-9/-10	.0	.0	.5	.4	.2	.0	.0	.0	6	.0	1.1
-11/-12	.0	.4	1.1	.0	.0	.0	.0	.0	8	.0	1.5
-14/-16	.0	.2	.2	.0	.0	.0	.0	.0	2	.0	.4
-17/-19	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	3		82		191		17		39		507
PCT	.5	10	15.0	180	34.0	60	3.1	.5	546	7.1	92.9
									100.0		

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.4	.0	.0	.0	1.1	.4	.8	.4	.0	.0	.0	1.5
1-2	.0	1.2	.4	.0	.0	.0	1.5	.0	1.3	.0	.0	.0	.0	1.5
3-4	.0	.7	1.7	.0	.0	.0	2.4	.0	.0	.8	.4	.0	.0	1.4
5-6	.0	.0	1.4	.4	.0	.0	1.7	.0	.0	.0	.4	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.3	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.4	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	3.6	.6	.6	.0	7.7	.4	2.3	1.9	1.4	.4	.0	6.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.6	.0	.0	.0	.0	1.3	.5	.4	.0	.0	.0	.0	.8
1-2	.0	.0	.7	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.7
3-4	.0	.0	.4	1.5	.0	.0	1.9	.0	.1	1.9	.1	.0	.0	2.1
5-6	.0	.0	.4	.7	.0	.0	1.1	.0	.0	.4	1.1	.0	.0	1.4
7	.0	.0	.0	.0	.4	.0	.4	.0	.0	.1	.4	.4	.0	.8
8-9	.0	.0	.3	.4	.0	.0	.6	.0	.0	.1	.7	.4	.0	1.2
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.5	.8	.4	.0	1.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.9
13-16	.0	.0	.0	.6	.3	.0	.9	.0	.0	.0	.1	.5	.0	.5
17-19	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	.6	2.0	3.2	1.0	.0	7.5	.5	.5	3.6	3.2	2.4	.0	10.1

PERIOD: (OVER-ALL) 1963-1974

OCTOBER

AREA 0023 ONEKOTAN ISLAND SE
48.4N 155.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.4	.0	.0	.0	.0		.4	.0	.4	.0	.0	.0	.0		.7
1-2	.0	1.4	.0	.0	.0	.0		1.4	.0	2.2	2.1	.0	.0	.0		4.2
3-4	.0	.6	1.5	.3	.0	.0		2.4	.0	.9	3.7	.7	.0	.0		5.3
5-6	.0	.0	1.4	.6	.0	.0		2.1	.0	.5	1.8	.5	.0	.0		2.7
7	.0	.0	.3	.4	.4	.0		1.0	.0	.0	.9	.7	.0	.0		1.6
8-9	.0	.0	.0	.4	.0	.0		.4	.0	.0	.1	.2	.0	.0		.3
10-11	.0	.0	.4	.3	.0	.0		.6	.0	.0	.0	.8	.1	.0		.9
12	.0	.0	.0	1.0	.5	.0		1.5	.0	.0	.0	.1	.4	.0		.5
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.4	.1	.0		.5
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	2.3	3.6	2.9	.9	.0		9.7	.4	3.9	8.6	3.3	.5	.0		16.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.4	.0	.0	.0	.0		.4	.0	1.1	.0	.0	.0	.0		1.1	
1-2	.0	1.9	2.1	.0	.0	.0		4.0	.0	2.0	1.3	.0	.0	.0		3.2	
3-4	.0	.9	2.4	.4	.0	.0		3.7	.0	1.1	1.6	.4	.0	.0		3.1	
5-6	.0	.6	1.7	1.1	.6	.0		4.1	.0	.0	1.6	.0	.1	.0		1.7	
7	.0	.0	3.2	1.3	.0	.0		4.8	.0	.0	.5	1.4	.0	.0		1.9	
8-9	.0	.0	.3	2.2	.0	.0		2.4	.0	.0	.7	1.0	.1	.0		1.8	
10-11	.0	.0	.0	1.8	.6	.0		2.4	.0	.0	.4	1.4	.4	.0		2.1	
12	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.0	.1	.0		.1	
13-16	.0	.0	.0	1.1	.5	.0		1.6	.0	.0	.0	.0	.1	.0		.1	
17-19	.0	.0	.0	.0	.3	.0		.3	.0	.0	.0	.0	.1	.0		.1	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	3.8	9.7	8.0	2.3	.0		23.9	.0	4.2	6.1	4.1	.8	.0		15.2	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.7	4.7	.7	.0	.0	.0	10.1	
1-2	.0	10.1	7.2	.0	.0	.0	17.3	
3-4	.0	4.3	14.1	4.0	.0	.0	22.4	
5-6	.0	1.1	8.7	4.7	.7	.0	15.2	
7	.0	.0	5.8	4.3	1.1	.0	11.2	
8-9	.0	.0	1.4	5.1	.7	.0	7.2	
10-11	.0	.0	1.4	5.1	2.2	.0	8.7	
12	.0	.0	.0	1.1	2.2	.0	3.2	
13-16	.0	.0	.0	2.5	1.4	.0	4.0	
17-19	.0	.0	.0	.0	.7	.0	.7	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.7	20.2	39.4	26.7	9.0	.0	100.0	277

PERIOD: (OVER-ALL) 1952-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	3.4	4.4	6.9	4.0	1.9	2.1	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	6
6-7	.0	1.5	4.0	5.0	4.0	3.4	4.8	1.3	2.9	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	133	8
8-9	.0	.0	1.3	1.1	2.3	1.1	2.5	2.1	2.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	64	10
10-11	.0	.0	.2	.6	1.7	.8	2.3	.8	1.5	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	43	10
12-13	.0	.0	.4	.2	1.1	.4	.0	.6	.2	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	21	11
>13	.0	.0	.0	.2	.4	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	9
INDEX	2.1	3.2	5.7	4.2	2.1	.8	.8	.8	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	96	4
TOTAL	10	38	76	87	74	41	60	29	39	13	8	1	0	0	0	0	0	0	0	476	7
PCT	2.1	8.0	16.0	18.3	15.5	8.6	12.6	6.1	8.2	2.7	1.7	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1942-1974

NOVEMBER

AREA 0023 ONEKOTAN ISLAND SE
48.7N 155.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WMO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	3.2	.0	.0	.0	11.6	.0	.0	14.7	7.4	.0	3.2	.0	.0	.0	74.7
NE	15.3	.0	.0	.0	23.3	.0	.0	34.1	.0	.0	1.2	.0	.0	.0	64.7
E	5.1	.0	17.7	.0	10.1	.0	.0	32.9	13.9	.0	5.1	.0	.0	.0	48.1
SE	25.0	.0	3.1	.0	.0	.0	.0	28.1	7.8	.0	.0	.0	6.3	.0	57.8
S	8.6	.0	.0	.0	4.3	.0	.0	12.9	4.3	.0	4.3	.0	.0	3.2	75.3
SW	6.9	.0	1.7	.0	16.0	.0	.0	24.7	2.2	.0	6.9	.0	.0	.4	65.8
W	.0	.0	.0	.0	11.4	.0	.0	11.4	12.2	.0	.0	.0	.0	.0	76.5
NW	.0	.0	.0	.0	19.3	.0	.0	19.3	9.8	.0	.0	.0	.0	.0	70.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	40.0	.0	.0	40.0	.0	.0	.0	.0	.0	.0	60.0
TOT PCT	4.7	.0	1.6	.0	13.8	.0	.0	19.8	7.9	.0	2.2	.0	.3	.3	69.5
TOT OBS:	318														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.1	.0	2.0	.0	14.3	.0	.0	19.4	7.1	.0	2.0	.0	.0	1.0	70.4
0600	3.2	.0	1.1	.0	16.1	.0	.0	19.4	6.5	.0	3.2	.0	.0	.0	71.0
1200	6.8	.0	1.4	.0	12.3	.0	.0	20.5	11.0	.0	2.7	.0	.0	.0	65.8
1800	7.6	.0	1.5	.0	10.6	.0	.0	19.7	6.1	.0	.0	.0	1.5	.0	72.7
TOT PCT TOT OBS:	4.8 330	.0	1.5	.0	13.6	.0	.0	19.7	7.6	.0	2.1	.0	.3	.3	70.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.3	2.0	3.5	.7	.3	.0		6.8	15.0	7.9	12.5	5.7	12.0	3.0	.0	8.8	.0
NE	.4	2.9	2.4	.5	.4	.4		7.6	16.6	5.8	.0	8.0	24.0	2.5	.0	8.8	.0
E	.0	1.1	2.1	2.1	1.2	.0		6.5	23.2	4.6	12.5	3.3	3.0	8.0	.0	7.4	45.8
SE	.4	.6	2.5	2.2	.0	.0		5.7	17.3	4.2	.0	10.8	5.0	6.0	.0	2.7	4.2
S	.0	1.9	3.7	1.6	.3	.0		7.5	16.9	8.8	.0	6.1	.0	13.0	.0	8.1	.0
SW	.4	4.5	7.9	4.6	.6	.0		17.9	17.4	20.8	6.3	14.6	24.0	23.0	50.0	10.8	.0
W	.0	2.6	14.7	9.8	.7	.0		27.8	20.0	22.9	43.8	34.0	18.0	31.0	50.0	29.1	.0
NW	.1	2.3	6.2	6.4	4.3	.0		19.3	24.6	23.3	25.0	17.5	14.0	13.5	.0	21.6	50.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0	1.7	.0	.0	.0	.0	.0	2.7	.0
TOT OBS	6	43	109	67	19	1	241	19.5		60	8	53	25	50	2	37	6
TOT PCT	2.5	17.8	43.8	27.8	7.9	.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	.6	3.8	2.1	.3	.0		6.8	15.0	8.5	7.7	2.9	7.6	
NE	.9	3.8	2.0	.0	.8		7.6	16.6	5.1	13.1	2.4	7.6	
E	.4	1.7	2.0	2.1	.4		6.5	23.2	5.3	3.2	7.7	12.8	
SE	.8	.6	3.8	.4	.0		5.7	17.3	3.7	9.0	5.8	2.9	
S	.4	3.6	2.7	.7	.0		7.5	16.9	7.7	4.2	12.5	7.0	
SW	2.1	5.8	7.8	2.3	.0		17.9	17.4	19.1	17.6	24.0	9.3	
W	.4	10.7	10.7	6.0	.0		27.8	20.0	25.4	28.8	31.7	25.0	
NW	.1	4.8	8.0	3.5	2.9		19.3	24.6	23.5	16.3	13.0	25.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.8						.8	.0	1.5	.0	.0	2.3	
TOT OBS	16	84	94	37	10	241	19.5		68	78	82	43	
TOT PCT	6.6	34.9	39.0	15.4	4.1		100.0		100.0	100.0	100.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1942-1974

AREA 0023 ONEKOTAN ISLAND SE
48.7N 155.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.5	.0	14.7	42.6	29.4	11.8	.0	20.7	100.0	68
06009	.0	2.6	25.6	41.0	26.9	2.6	1.3	17.4	100.0	78
12015	.0	1.9	15.4	44.2	32.7	5.8	.0	20.0	100.0	52
18021	2.3	2.3	11.6	48.8	20.9	14.0	.0	20.6	100.0	43
TOT	2	4	43	105	67	19	1	19.5		241
PCT	.8	1.7	17.8	43.6	27.8	7.9	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	.7	3.0	3.3		5.9
NE	.4	.0	.5	5.0		7.2
E	.0	.0	.4	5.0		7.9
SE	.0	.0	.9	5.1		7.7
S	1.5	1.1	.3	4.3		5.9
SW	2.0	.9	4.9	9.8		6.5
W	2.0	4.7	14.8	8.2		5.9
NW	.4	2.6	9.0	6.6		6.1
VAR	.0	.0	.0	.0		.0
CALM	.4	.4	.0	.8		5.0
TOT OBS	18	25	80	114	237	6.3
TOT PCT	7.6	10.5	33.8	48.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.1	.0	.4	.6	1.9	1.5	.4	.0	.0	.0	1.9	
NE	.5	.0	.5	.9	1.1	1.1	.8	.0	.0	.4	.5	
E	1.3	.0	.3	1.2	1.1	1.2	.0	.0	.0	.4	.0	
SE	.8	.0	.0	1.1	.9	1.9	.8	.0	.0	.0	.4	
S	.4	.0	.0	1.6	.7	1.5	.0	.0	.0	.4	2.5	
SW	2.5	.0	.0	.6	5.4	1.6	.8	.0	.0	1.3	5.2	
W	1.7	.0	.0	3.7	6.4	6.3	1.6	.4	.8	.0	8.8	
NW	1.4	.0	.8	2.7	4.0	4.0	1.8	.0	.0	.0	3.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.8	
TOT OBS	24	0	5	30	51	46	15	1	2	6	57	237
TOT PCT	10.1	.0	2.1	12.7	21.5	19.4	6.3	.4	.8	2.5	24.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.8	2.9	2.9	2.9	3.3	3.3	3.3	3.3
>6000	.8	2.9	2.9	2.9	3.7	3.7	3.7	3.7
>5500	4.5	8.6	9.4	9.4	10.2	10.2	10.2	10.2
>5000	14.7	23.7	28.2	29.4	30.2	30.2	30.6	30.6
>4500	20.0	37.6	46.5	49.0	50.2	50.2	51.0	51.0
>4000	22.9	47.3	59.2	61.6	63.3	63.3	64.1	64.1
>3500	23.3	47.8	60.0	62.4	64.1	65.3	66.1	66.1
>3000	23.3	47.8	60.0	62.4	64.1	65.3	66.1	66.1
>2500	23.3	47.8	60.0	62.4	64.1	65.3	66.1	66.1
>2000	23.3	48.6	63.3	68.2	71.0	73.5	75.1	75.9
TOTAL	57	119	155	167	174	180	184	186

TOTAL NUMBER OF OBS: 245

PCT FREQ NM <5/8: 24.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 DBSCD	TOTAL OBS
4.3	1.1	6.1	5.4	6.8	7.6	13.3	11.5	35.3	278

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1942-1974

NOVEMBER

AREA 0023 ONEKOTAN ISLAND SE
48.7N 155.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.6	.6	.6	.0	.0	.6	.3	1.3	.0	.3	4.4	
	NO PCP	.3	.0	.0	.0	.3	.3	.3	.3	.0	.0	1.6	
	TOT %	.9	.6	.6	.0	.3	.9	.6	1.6	.0	.3	6.0	
1/2<1	PCP	.0	.6	.0	.0	.3	.0	.9	.0	.0	.0	1.9	
	NO PCP	.0	.0	.0	.0	.0	.3	.3	.3	.0	.0	.9	
	TOT %	.0	.6	.0	.0	.3	.3	1.3	.3	.0	.0	2.8	
1<2	PCP	.0	.0	.3	.3	.0	.4	.9	.6	.0	.3	2.8	
	NO PCP	.2	.0	.6	.0	.0	.1	.2	.4	.0	.0	1.6	
	TOT %	.2	.0	.9	.3	.0	.5	1.1	1.0	.0	.3	4.4	
2<5	PCP	.0	1.3	.6	1.0	.3	2.5	.6	1.7	.0	.0	7.9	
	NO PCP	1.0	1.1	1.3	.9	.0	1.7	1.7	2.3	.0	.0	10.1	
	TOT %	1.0	2.4	1.8	2.0	.3	4.3	2.3	3.9	.0	.0	18.0	
5<10	PCP	.5	.1	.6	.4	.3	.6	.3	.1	.0	.0	2.8	
	NO PCP	2.4	1.1	1.2	.7	3.3	5.6	7.3	4.3	.0	.0	23.9	
	TOT %	2.8	1.2	1.7	1.1	3.6	6.2	7.6	4.3	.0	.0	26.7	
10+	PCP	.0	.0	.0	.0	.0	.0	.2	.4	.0	.0	.6	
	NO PCP	2.4	2.2	1.1	2.0	2.4	5.7	15.1	7.6	.0	.9	39.4	
	TOT %	2.4	2.2	1.1	2.0	2.4	5.7	15.3	8.0	.0	.9	40.1	
TOT OBS													317
TOT PCT		7.5	7.0	6.2	5.4	7.0	17.9	28.2	19.2	.0	1.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.4	.0	.0	.4	.9	.4	.0	.0	.0	.0	2.1	
	22+	.0	.4	.4	.0	.0	.0	1.7	.0	.0	.0	2.6	
	TOT %	.4	.4	.4	.0	.4	.9	.4	1.7	.0	.4	5.2	
1/2<1	0-3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	4-10	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	11-21	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.9	.4	.0	.0	.0	1.3	
	TOT %	.0	.9	.0	.0	.0	.4	1.3	.4	.0	.0	3.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.9	
	22+	.3	.0	1.3	.0	.0	.2	.6	1.0	.0	.0	3.4	
	TOT %	.3	.0	1.7	.4	.0	.2	1.1	1.0	.0	.0	4.7	
2<5	0-3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	4-10	1.0	.6	.3	.1	.0	.9	.0	.5	.0	.0	3.4	
	11-21	.0	.4	.9	.0	.0	1.8	.8	1.3	.0	.0	5.2	
	22+	.0	.9	.9	1.3	.0	1.0	.8	1.7	.0	.0	6.4	
	TOT %	1.0	1.9	2.0	1.4	.0	4.1	1.5	3.5	.0	.0	15.5	
5<10	0-3	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.4	
	4-10	.3	.1	.0	.1	.8	2.4	1.5	.9	.0	.0	6.0	
	11-21	2.1	1.1	.6	.8	2.1	2.4	3.1	1.9	.0	.0	14.2	
	22+	.4	.0	.4	.5	1.2	1.6	4.2	2.4	.0	.0	10.7	
	TOT %	3.2	1.2	1.1	1.4	4.1	6.3	8.8	5.3	.0	.0	31.3	
10+	0-3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	.9	
	4-10	.8	1.8	.4	.4	1.2	.9	.9	.9	.0	.0	7.3	
	11-21	1.1	1.1	.6	1.0	.9	2.7	10.1	2.8	.0	.0	20.2	
	22+	.3	.1	.4	.4	.3	2.1	4.4	3.9	.0	.0	12.0	
	TOT %	2.1	3.0	1.5	2.3	2.4	5.8	15.3	7.5	.0	.4	40.3	
TOT OBS													233
TOT PCT		7.1	7.4	6.8	5.5	6.9	17.7	28.4	19.4	.0	.9	100.0	

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1942-1974

NOVEMBER

AREA 0023 ONEKOTAN ISLAND SE
48.7N 155.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	4.7	.0	2.3	16.3	24.4	17.4	4.7	.0	.0	1.2	70.9	29.1	86
06009	7.6	.0	3.0	10.6	25.8	19.7	15.2	.0	.0	1.5	83.3	16.7	66
12015	14.3	.0	.0	8.9	21.4	17.9	1.8	.0	3.6	5.4	73.2	26.8	56
18021	15.2	.0	2.2	13.0	2.2	28.3	2.2	2.2	.0	2.2	67.4	32.6	46
TOT	24	0	5	32	51	51	16	1	2	6	188	66	254
PCT	9.4	.0	2.0	12.6	20.1	20.1	6.3	.4	.8	2.4	74.0	26.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	8.2	3.1	5.1	13.3	26.5	43.9	98
06009	6.2	3.1	2.1	19.6	29.9	39.2	97
12015	4.2	1.4	5.6	22.2	31.9	34.7	72
18021	6.0	3.0	9.0	17.9	25.4	38.8	67
TOT	21	9	17	60	95	132	334
PCT	6.3	2.7	5.1	18.0	28.4	39.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	4.8	9.6	38.6	34.9	26.5	83
06009	7.7	13.8	36.9	50.8	12.3	65
12015	15.4	17.3	42.3	36.5	21.2	52
18021	15.6	22.2	46.7	24.4	28.9	45
TOT	24	36	99	92	54	245
PCT	9.8	14.7	40.4	37.6	22.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	2.4	2.4	.0	4	4.8
40/44	.0	.0	.0	2.4	3.6	7.1	9.5	7.1	25	29.8
35/39	.0	.0	.0	1.2	3.6	8.3	13.1	6.0	27	32.1
30/34	.0	.0	.0	.0	4.8	1.2	7.1	13.1	22	26.2
25/29	.0	.0	.0	.0	1.2	2.4	1.2	2.4	6	7.1
TOTAL	0	0	0	9	11	18	28	24	84	100.0
PCT	.0	.0	.0	3.6	13.1	21.4	33.3	28.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.9	1.5	.0	.0	.0	1.2	1.2	.0	.0	.0	.0
.0	3.0	6.5	1.2	3.3	5.7	8.6	1.5	.0	.0	.0
5.1	3.6	1.8	2.4	1.2	2.1	7.7	8.3	.0	.0	.0
.9	.0	.0	.0	.0	5.7	11.3	8.3	.0	.0	.0
.0	.0	.0	.0	.0	.0	2.4	4.8	.0	.0	.0
6.8	8.0	8.3	3.6	4.5	14.6	31.3	22.9	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	46	45	45	37	28	27	27	36.3	97
06009	47	46	45	36	28	25	25	35.9	97
12015	43	42	42	34	24	23	23	34.5	74
18021	50	49	45	34	27	25	25	35.0	68
TOT	50	47	44	36	27	23	23	35.5	336

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	20.8	33.3	25.0	20.8	79	24
06009	.0	10.5	5.3	10.5	36.8	36.8	84	19
12015	.0	.0	12.5	18.7	33.3	37.5	85	24
18021	.0	5.6	11.1	27.8	38.9	16.7	79	18
TOT	0	3	11	19	28	24	82	85

NOVEMBER

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1942-1974AREA 0023 DNEKOTAN ISLAND SE
48.7N 155.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FUG	WD FOG
7/8	.0	.0	.0	.0	.0	.0	.0	.3	1	.0	.3
6	.0	.0	.0	.0	.0	.0	.3	.0	1	.0	.3
5	.0	.0	.0	.0	.0	.6	1.0	.0	5	.0	1.6
4	.0	.0	.0	.0	.3	.3	.6	.0	4	.0	1.3
3	.0	.0	.0	1.0	.3	1.3	.0	.0	8	.0	2.5
2	.0	.0	.0	.3	2.2	2.9	.0	.0	17	.3	5.1
1	.0	.0	.0	1.0	1.6	2.9	.6	.0	19	.0	6.0
0	.0	.0	.0	1.0	4.1	1.9	.6	.0	24	.3	7.3
-1	.0	.0	.6	1.0	2.2	.3	.3	.0	14	.0	4.4
-2	.0	.0	.0	2.2	3.8	2.2	.0	.0	26	.3	7.9
-3	.0	.3	1.0	2.2	1.9	.6	.0	.0	19	.0	6.0
-4	.0	.0	.6	1.3	1.6	1.6	.0	.0	16	.0	5.1
-5	.0	.6	3.5	4.4	2.5	.3	.3	.0	37	.3	11.4
-6	.0	.3	2.5	.3	.3	.0	.0	.0	11	.0	3.5
-7/-8	.0	1.3	2.9	3.2	1.0	.6	.0	.0	28	.0	8.9
-9/-10	.0	2.5	5.7	1.6	1.6	.0	.3	.0	37	.6	11.1
-11/-13	.0	3.2	2.9	2.2	1.0	.0	.0	.0	29	.3	8.9
-14/-16	1.3	1.9	.3	.3	.3	.0	.0	.0	13	.0	4.1
-17/-19	.0	.6	.6	.0	.0	.0	.0	.0	4	.0	1.3
-20/-22	.0	.6	.0	.0	.0	.0	.0	.0	2	.0	.6
TOTAL	4	36	65	69	78	49	13	1	315	7	308
PCT	1.3	11.4	20.6	21.9	24.8	15.6	4.1	.3	100.0	2.2	97.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGY	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.9	1.6	.0	.0	.0	2.5	.0	.2	.8	.6	.0	.0	1.6
5-6	.0	.6	1.6	.0	.0	.0	2.2	.0	.6	1.4	.0	.0	.0	2.1
7	.0	.0	.0	.6	.0	.0	.6	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6
13-16	.0	.0	.3	.0	.0	.0	.5	.0	.0	.0	.0	.6	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	3.6	.6	.0	.0	5.9	.0	1.4	3.0	.6	.6	.6	6.3

MGY	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.6	.2	.0	.0	.0	.8
1-2	.0	.6	.0	.0	.0	.0	.6	.6	.2	1.9	.0	.0	.0	2.7
3-4	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	1.3	.0	.0	1.3
5-6	.0	.0	1.1	.6	.0	.0	1.7	.0	.0	1.3	1.4	.0	.0	2.7
7	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	2.2	1.9	.6	.0	5.4	.6	.8	3.3	2.7	.0	.0	7.4

PERIOD: (OVER-ALL) 1963-1974

NOVEMBER

TABLE 18 (CONT)

AREA 0023 ONEKOTAN ISLAND SE
48.7N 155.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.5	.0	.0	.0	.5	.6	.0	.0	.0	.0	.0	.6
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.6	.0	.0	.0	.6
3-4	.0	.0	.0	.6	.0	.0	.6	.0	1.3	2.7	.6	.0	.0	4.6
5-6	.0	.6	1.7	.5	.0	.0	2.8	.0	.0	2.7	1.3	.0	.0	4.0
7	.0	.0	.5	.6	.0	.0	1.1	.0	.6	2.1	.2	.0	.0	2.8
8-9	.0	.0	.6	.0	.0	.0	.6	.0	1.3	.6	.8	.2	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.2	.0	1.6
13-16	.0	.0	.6	.0	.5	.0	1.1	.0	.0	.0	.0	.6	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	4.0	1.7	.5	.0	7.9	.6	3.2	9.5	4.7	.9	.0	19.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	3.0	.5	.0	.0	3.5	.0	.8	.2	.8	.0	.0	1.7	3.8
5-6	.0	.0	3.8	.9	.0	.0	4.7	.0	.0	2.2	1.6	.0	.0	2.2	1.9
7	.0	.0	3.5	2.4	.0	.0	5.9	.0	.0	.9	.0	1.3	.0	4.1	1.3
8-9	.0	.6	.6	2.4	.5	.0	4.1	.0	.0	.6	1.3	.0	.0	2.5	4.0
10-11	.0	.0	1.1	2.1	.0	.0	3.2	.0	.0	.6	3.5	.0	.0	4.1	1.3
12	.0	.0	.0	1.6	.6	.0	2.2	.0	.0	.0	.6	.6	.0	1.3	4.0
13-16	.0	.0	.0	1.7	.0	.0	1.7	.0	.0	.8	.6	.6	.0	2.5	4.0
17-19	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	13.3	12.2	1.1	.0	27.2	.0	.8	5.4	8.4	5.1	.0	19.6	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.9	1.3	.6	.0	.0	.0	3.8	7.0
1-2	.6	1.9	4.4	.0	.0	.0	7.0	16.5
3-4	.0	3.2	8.2	5.1	.0	.0	16.5	24.1
5-6	.0	1.9	15.8	6.3	.0	.0	24.1	13.9
7	.0	.6	8.2	3.8	1.3	.0	13.9	9.5
8-9	.0	1.9	2.5	4.4	.6	.0	9.5	6.4
10-11	.0	.0	2.5	6.3	.0	.0	6.4	10.1
12	.0	.0	.0	2.5	1.3	.6	4.4	1.3
13-16	.0	.0	1.9	3.8	4.4	.0	10.1	.6
17-19	.0	.0	.0	.6	.6	.0	1.3	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	10.8	44.3	32.9	8.9	.6	100.0	158

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	3.1	3.9	7.0	3.9	1.9	1.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59
6-7	.0	.4	1.6	5.0	7.0	4.7	2.3	2.3	3.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	89
8-9	.4	.0	.4	.4	3.1	1.9	2.3	1.9	2.3	1.2	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	41
10-11	.0	.0	.4	2.3	.8	.8	1.6	.4	.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
12-13	.0	.0	.0	1.2	.4	.4	.4	.0	1.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
>13	.0	.0	.0	.0	.0	.4	.8	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
INDET	.4	1.2	3.5	2.7	5.8	1.2	2.7	.8	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
TOTAL	4	12	25	48	94	29	30	15	28	8	5	0	0	0	0	0	0	0	0	0	54
PCT	1.6	4.7	9.7	18.6	20.9	11.2	11.6	5.8	10.9	3.1	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1936-1973

DECEMBER

AREA 0023 ONEKOTAN ISLAND SE
48.0N 159.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
N	.0	.0	2.7	.0	11.6	.0	.0	14.4	12.3	.0	.0	.0	.0	73.3
NE	.0	.0	.0	.0	23.3	.0	.0	23.3	.0	.0	1.0	.0	.0	75.7
E	.0	.0	.0	.0	18.2	.0	.0	18.2	.0	.0	7.8	.0	.0	74.0
SE	9.8	.0	9.8	.0	11.8	.0	2.0	33.3	3.9	.0	11.8	.0	.0	51.0
S	2.2	7.9	22.3	.0	18.0	.0	2.2	49.6	12.2	.0	2.2	.0	.0	36.0
SW	2.2	.3	2.2	.0	22.7	.0	.0	27.6	6.5	.0	7.0	.0	.0	58.4
W	2.4	.9	.0	.0	23.4	.0	.9	24.3	14.7	.0	.7	.0	.9	58.6
NW	.5	.0	.0	.0	19.1	.0	.0	19.1	7.2	.0	1.0	.0	.0	72.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	33.3	.0	.0	33.3	.0	.0	.0	.0	.0	66.7
TOT PCT	1.6	1.0	2.9	.0	20.0	.0	.5	24.7	9.1	.0	2.3	.0	.3	63.4
TOT OBS:	385													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
00003	2.6	.9	2.6	.0	18.4	.0	.0	21.9	12.3	.0	2.6	.0	.0	62.3
06009	1.7	.0	4.3	.0	12.2	.0	1.7	20.0	12.2	.0	3.5	.0	.9	63.3
12015	1.1	1.1	3.2	.0	26.9	.0	.0	31.2	5.4	.0	.0	.0	.0	63.4
18021	.0	2.6	.0	.0	25.0	.0	.0	26.3	2.6	.0	2.6	.0	.0	68.4
TOT PCT	1.5	1.0	2.8	.0	19.8	.0	.5	24.4	8.8	.0	2.3	.0	.3	64.1
TOT OBS:	398													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	.0	1.4	4.3	1.2	1.2	.0		8.1	18.8	10.1	17.9	7.7	12.5	4.7	.0	7.1	6.3
NE	.0	.5	3.0	1.4	.1	.0		5.1	18.3	5.4	3.6	3.7	3.8	6.1	8.3	3.8	10.4
E	.0	.6	2.8	1.3	.5	.3		5.3	22.5	4.3	25.0	7.0	2.5	.0	.0	6.4	8.3
SE	.0	1.1	.9	1.7	.3	.0		4.0	20.8	5.1	1.8	4.8	6.3	.5	.0	7.7	.0
S	.0	.3	4.4	3.0	1.5	.0		9.1	23.5	7.2	5.4	12.1	3.8	13.2	.0	9.0	8.3
SW	.3	1.0	6.9	3.4	.5	.0		11.8	19.0	10.5	7.1	7.4	15.0	20.8	.0	17.3	.0
W	.3	2.7	11.9	10.1	3.7	.3		29.2	22.6	37.7	3.6	30.3	25.0	30.2	29.2	21.8	29.2
NW	.0	4.9	10.4	8.8	4.0	.0		28.3	20.2	16.7	35.7	26.8	31.3	24.5	62.5	24.4	37.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0							1.0	.0	2.9	.0	.0	.0	.0	.0	2.8	.0
TOT OBS	5	36	127	83	34	2	287	1.0	20.8	69	14	68	20	53	12	39	12
TOT PCT	1.7	12.5	44.9	28.9	11.8	.7		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	.3	3.7	2.5	1.5	.0		8.1	18.8	11.4	8.8	3.8	6.9	
NE	.3	1.8	2.4	.4	.0		5.1	18.3	5.1	3.7	6.5	5.4	
E	.0	1.6	2.3	1.1	.3		5.3	22.5	7.8	6.0	.0	6.9	
SE	.4	.7	1.7	1.0	.2		4.0	20.8	4.5	5.1	.4	5.9	
S	.3	2.2	4.0	1.8	.9		9.1	23.5	6.9	10.2	10.8	8.8	
SW	.3	3.5	4.4	1.3	.3		11.8	19.0	9.9	9.1	16.9	13.2	
W	.7	7.7	12.0	7.4	1.4		29.2	22.6	31.9	29.3	30.0	23.5	
NW	2.1	8.5	10.5	4.5	.7		28.3	20.2	19.9	27.8	31.5	27.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.0						1.0	.0	2.4	.0	.0	2.0	
TOT OBS	16	91	114	55	11	287	1.0	20.8	83	88	63	91	
TOT PCT	5.6	31.7	39.7	19.2	3.8		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1934-1973

DECEMBER

AREA 0023 ONEKOTAN ISLAND SE
48.0N 155.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
00003	2.4	.0	9.6	43.4	26.9	16.9	1.2	22.1	100.0	83
06009	.0	1.1	20.5	29.5	38.6	9.1	1.1	21.2	100.0	88
12015	.0	1.5	4.6	49.2	32.3	12.3	.0	21.2	100.0	65
18021	2.0	.0	13.7	64.7	11.8	7.8	.0	17.2	100.0	91
TOT	3	2	36	127	83	34	2	20.8		287
PCT	1.0	.7	12.5	44.3	28.9	11.8	.7	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	1.3	1.5	3.0	3.1	5.7	5.7
NE	.7	.4	2.0	3.8	6.5	6.5
E	.3	.3	1.0	4.3	7.1	7.1
SE	.1	.0	.4	3.6	7.6	7.6
S	1.4	.0	2.6	3.9	6.3	6.3
SW	1.7	.5	5.9	5.2	6.1	6.1
W	.4	4.0	12.1	9.7	6.4	6.4
NW	3.0	1.7	14.9	9.0	5.7	5.7
VAR	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.7	.0	6.5	6.5
TOT OBS	25	24	121	114	284	6.2
TOT PCT	8.8	8.5	42.6	40.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL DBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.3	.0	.7	.9	1.3	1.1	.5	.0	.0	.0	.0	4.0
NE	1.2	.0	.4	.7	1.8	1.1	.0	.0	.0	.0	.0	1.8
E	.9	.0	.4	.8	1.3	1.2	.0	.0	.4	.0	.0	.9
SE	1.7	.0	.1	.0	1.1	1.1	.0	.0	.0	.0	.0	.2
S	.5	.4	.3	2.6	3.1	.6	.4	.0	.0	.0	.0	1.7
SW	2.1	.0	.0	2.6	2.0	2.8	.1	.4	.0	.4	.0	3.0
W	3.5	.0	1.1	3.1	5.7	5.8	.6	.4	.0	.0	.0	6.1
NW	2.1	.4	.4	3.2	5.5	4.6	1.2	.4	.0	.4	.0	6.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0
TOT OBS	35	2	8	38	59	54	13	3	1	2	69	284
TOT PCT	12.3	.7	2.8	13.4	20.8	19.0	4.6	1.1	.4	.7	24.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NH) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6300	.7	.7	1.0	1.0	1.0	1.0	1.0	1.0
= OR >5000	1.0	1.4	1.7	2.1	2.1	2.1	2.1	2.1
= OR >3500	2.4	4.8	6.6	7.2	7.2	7.2	7.2	7.2
= OR >2000	10.0	20.3	24.8	25.9	26.6	26.6	26.6	26.6
= OR >1000	19.7	33.4	41.0	43.8	45.5	46.2	46.9	46.9
= OR >600	22.8	39.7	51.0	55.9	57.9	59.0	59.7	60.0
= OR >300	23.4	41.0	52.8	58.3	60.7	61.7	62.4	62.8
= OR >150	23.4	41.4	53.1	58.6	61.4	62.4	63.1	63.4
= OR >0	23.4	44.5	58.3	64.8	68.6	72.1	75.2	75.5
TOTAL	68	129	169	188	199	209	218	219

TOTAL NUMBER OF OBS: 290

PCT FREQ NH <5/8: 24.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
1.8	1.2	8.2	4.9	7.3	12.2	10.6	14.3	28.9	10.6	329

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1934-1973

DECEMBER

AREA 0023 ONEKOTAN ISLAND SE
48.6N 155.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.9	.6	1.9	.0	.0	.3	3.9	
	NO PCP	.0	.1	.4	.5	.4	.8	.2	.3	.0	.0	2.8	
	TOT %	.0	.1	.4	.6	1.3	1.5	2.1	.3	.0	.3	6.5	
1/2<1	PCP	.3	.0	.0	.0	.5	.4	1.1	.6	.0	.0	2.8	
	NO PCP	.3	.3	.3	.0	.0	.0	.2	.3	.0	.0	1.3	
	TOT %	.3	.3	.3	.0	.5	.4	1.3	1.0	.0	.0	4.1	
1<2	PCP	.4	.6	.2	.0	1.1	.5	.8	.6	.0	.0	4.1	
	NO PCP	.2	.0	.0	.0	.5	.0	.3	.6	.0	.0	1.6	
	TOT %	.6	.6	.2	.0	1.6	.5	1.0	1.2	.0	.0	5.7	
2<5	PCP	.5	.6	.9	.5	1.6	.6	1.9	1.7	.0	.0	8.3	
	NO PCP	.5	.5	1.3	.3	.7	.7	3.1	2.7	.0	.0	9.8	
	TOT %	1.0	1.1	2.2	.8	2.3	1.4	5.0	4.4	.0	.0	18.1	
5<10	PCP	.2	.3	.3	.5	.5	1.2	.7	2.1	.0	.0	5.7	
	NO PCP	1.8	2.3	.9	.6	1.6	1.9	8.7	7.6	.0	.0	25.1	
	TOT %	2.0	2.6	1.2	1.1	2.0	3.0	9.4	9.5	.0	.0	30.8	
10+	PCP	.0	.0	.0	.0	.0	.5	.1	.0	.0	.0	.5	
	NO PCP	5.4	2.0	1.2	.8	1.4	5.0	8.3	9.6	.0	.5	34.2	
	TOT %	5.4	2.0	1.2	.8	1.4	5.0	8.7	9.7	.0	.5	34.7	
TOT OBS													386
TOT PCT		9.5	6.7	5.4	3.4	9.0	11.7	27.6	26.0	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	11-21	.0	.1	.3	.4	.0	.8	.6	.4	.0	.0	2.5	
	22+	.0	.0	.3	.3	1.2	.4	1.4	.0	.0	.0	3.6	
	TOT %	.0	.1	.5	.6	1.2	1.5	2.0	.4	.0	.4	6.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.3	.4	.2	.9	.0	.0	1.8	
	22+	.4	.0	.4	.0	.0	.1	.9	.4	.0	.0	2.1	
	TOT %	.4	.0	.4	.0	.3	.5	1.4	1.3	.0	.0	4.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	11-21	.3	.5	.3	.0	.6	.1	.7	1.4	.0	.0	3.9	
	22+	.0	.0	.0	.0	.9	.2	.0	.0	.0	.0	1.1	
	TOT %	.3	.5	.3	.0	1.5	.3	1.1	1.4	.0	.0	5.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.6	.8	.3	.4	.4	.4	.0	.0	2.8	
	11-21	.4	.4	.4	.1	1.0	.1	1.7	1.1	.0	.0	5.0	
	22+	.6	.7	1.0	.3	1.9	1.3	3.3	3.0	.0	.0	12.1	
	TOT %	1.0	1.2	2.0	1.2	3.1	1.8	5.3	4.4	.0	.0	19.9	
5<10	0-3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	4-10	.6	.4	.0	.0	.0	.4	.4	2.1	.0	.0	3.9	
	11-21	.4	1.2	.6	.4	1.3	1.5	4.0	2.7	.0	.0	12.1	
	22+	.6	.0	.0	.4	.3	.7	5.1	4.4	.0	.0	11.4	
	TOT %	1.6	1.6	.6	.8	1.6	2.9	9.4	9.2	.0	.0	27.8	
10+	0-3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.7	1.1	
	4-10	.8	.0	.0	.4	.0	.0	1.3	2.3	.0	.0	5.0	
	11-21	3.4	1.0	1.1	.0	1.3	3.4	4.8	4.4	.0	.0	19.2	
	22+	.9	.8	.6	.4	.3	1.3	3.5	2.8	.0	.0	10.7	
	TOT %	5.1	1.8	1.7	.8	1.6	4.7	9.8	9.8	.0	.7	35.9	
TOT OBS													281
TOT PCT		8.3	5.2	5.4	3.4	9.3	11.7	29.1	26.5	.0	1.1	100.0	

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1934-1973

AREA 0023 ONEKOTAN ISLAND SE
48.6N 155.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	7.1	1.0	3.0	15.2	22.2	20.2	8.1	2.0	1.0	.0	79.8	20.2	99
06009	8.2	.0	4.1	7.2	24.7	25.8	5.2	1.0	.0	1.0	77.3	22.7	97
12015	18.3	1.7	1.7	16.7	11.7	11.7	3.3	.0	.0	1.7	66.7	33.3	60
18021	22.7	.0	.0	15.9	18.2	9.1	.0	.0	.0	.0	65.9	34.1	44
TOT	96	2	8	39	61	56	15	3	1	2	223	77	300
PCT	12.0	.7	2.7	13.0	20.3	18.7	5.0	1.0	.3	.7	74.3	25.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	7.6	1.7	5.8	21.2	19.5	44.1	118
06009	6.0	5.1	4.8	17.9	29.1	37.6	117
12015	5.3	4.3	6.4	18.1	41.5	24.5	94
18021	7.9	5.3	7.9	14.5	38.2	26.3	76
TOT	27	16	24	74	125	139	405
PCT	6.7	4.0	5.9	18.3	30.9	34.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	7.2	13.4	47.4	36.1	16.5	97
06009	9.5	20.0	40.0	38.9	21.1	95
12015	19.3	22.8	43.9	29.8	26.3	57
18021	22.0	29.3	53.7	19.5	26.8	41
TOT	36	57	131	97	62	290
PCT	12.4	19.7	45.2	33.4	21.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	1.0	2.1	2.1	1.0	6	6.2
35/39	.0	.0	.0	.0	1.0	7.2	8.2	7.2	23	23.7
30/34	.0	.0	.0	.0	3.1	10.3	10.3	16.5	39	40.2
25/29	.0	.0	.0	1.0	3.1	3.1	5.2	6.2	18	18.6
20/24	.0	.0	.0	.0	.0	2.1	3.1	2.1	7	7.2
15/19	.0	.0	.0	.0	.0	.0	.0	4.1	4	4.1
TOTAL	0	0	0	1	8	24	28	36	97	100.0
PCT	.0	.0	.0	1.0	8.2	24.7	28.9	37.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	2.3	3.4	.5	.0	.0	.0	.0
1.8	.0	3.9	2.1	5.2	6.4	3.1	1.3	.0	.0	.0
1.5	1.5	1.5	.5	4.1	5.9	16.8	8.2	.0	.0	.0
4.1	1.5	.0	.0	.0	.0	3.9	9.0	.0	.0	.0
1.0	1.3	.8	.0	1.0	.0	2.6	.5	.0	.0	.0
.0	.0	.0	.0	.0	.0	2.8	1.3	.0	.0	.0
8.5	4.4	6.2	4.9	13.7	12.9	29.1	20.4	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	41	40	37	32	21	18	18	30.8	112
06009	42	41	39	32	21	14	14	31.0	111
12015	41	40	37	28	18	16	16	29.0	93
18021	43	42	37	28	21	19	19	29.1	77
TOT	43	41	39	30	21	17	14	30.1	393

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	3.7	33.3	25.9	37.0	84	27		
06009	.0	2.8	11.1	30.6	13.9	41.7	85	36		
12015	.0	.0	15.0	5.0	50.0	30.0	84	20		
18021	.0	.0	.0	21.4	42.9	35.7	87	14		
TOT	0	1	8	24	28	36	85	97		

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1934-1973

TABLE 17

AREA 0023 ONEKOTAN ISLAND SE
48.6N 155.0EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	W FOG	WO FOG
6	.0	.0	.0	.0	.0	.0	.0	.3	1	.0	.3
5	.0	.0	.0	.0	.0	.3	.0	.6	3	.0	.9
4	.0	.0	.0	.0	.0	.3	1.4	.0	6	.0	1.7
3	.0	.0	.0	.0	.0	.0	.9	.3	4	.0	1.1
2	.0	.0	.0	.0	.0	.3	2.6	.0	10	.0	2.8
1	.0	.0	.0	.0	.0	.6	1.4	.0	7	.0	2.0
0	.0	.0	.0	.0	.3	3.7	1.1	.6	20	.6	5.1
-1	.0	.0	.0	.0	.6	1.7	.9	.0	11	.0	3.1
-2	.0	.0	.0	.0	1.4	4.8	1.1	.0	26	.3	7.1
-3	.0	.0	.0	.0	2.0	1.4	.9	.0	15	.0	4.3
-4	.0	.0	.0	1.4	5.1	3.7	.6	.0	38	.3	10.5
-5	.0	.0	.0	2.0	4.0	1.7	.3	.0	28	.0	8.0
-6	.0	.0	.0	2.0	3.7	1.4	.0	.0	25	.0	7.1
-7/-8	.0	.0	.0	4.5	4.5	.6	.0	.0	34	.3	9.4
-9/-10	.0	.0	.3	8.2	1.4	.3	.0	.0	36	.0	10.2
-11/-13	.0	.0	5.1	4.8	1.7	.3	.0	.0	42	.3	11.6
-14/-16	.0	.0	3.1	2.8	.3	.0	.0	.0	25	.3	6.8
-17/-19	.0	1.7	1.1	.3	.3	.0	.0	.0	12	.0	3.4
-20/-22	.6	.3	.3	.3	.0	.0	.0	.0	5	.0	1.4
-23/-25	.3	.6	.3	.0	.0	.0	.0	.0	4	.0	1.1
TOTAL	3	12	36	93	89	74	39	6	352	7	345
PCT	.9	3.4	10.2	26.4	25.3	21.0	11.1	1.7	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.6	.0	.0	.0	1.6	.0	.6	.1	1.6	.0	.0	.7
3-4	.0	.4	.6	.0	.0	.0	1.0	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.9	1.0	.0	.0	1.8	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.4	.0	.4	.0	.9	.0	.0	.7	.0	.1	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.6	.0	.0	.0	.6
12	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	4.0	1.4	.4	.0	6.3	.0	.7	1.7	.0	.1	.0	2.6

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.6	.4	.0	.0	.0	1.0	.0	1.1	.6	.0	.0	.0	1.7
3-4	.0	.4	.6	.0	.0	.0	1.0	.0	.0	.0	1.1	.0	.0	1.1
5-6	.0	.0	1.0	.6	.0	.0	1.6	.0	.6	.6	.0	.0	.0	1.1
7	.0	.0	.6	.0	.4	.0	1.0	.0	.0	.0	.6	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
13-16	.0	.0	.0	.4	.4	.0	.9	.0	.0	.1	.1	.1	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	2.6	1.0	.9	.6	6.0	.0	1.8	1.3	2.4	.4	.0	6.0

PERIOD: (OVER-ALL) 1963-1973

DECEMBER

AREA 0023 ONEKUTAN ISLAND SE
48.6N 155.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.4	.0	.0	.0	.0	.4	.6	.0	.0	.0	.0	.0	.0	.6
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	2.0	1.1	.0	.0	.0	3.1
5-6	.0	.0	1.6	1.3	.0	.0	2.8	.0	.6	2.4	.7	.0	.0	.0	3.7
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	1.4	.7	.0	.0	.0	2.1
8-9	.0	.0	.4	.6	.9	.0	1.8	.0	.0	.7	.4	.0	.0	.0	1.1
10-11	.0	.0	.0	.6	.6	.0	1.1	.0	.0	.0	.7	.0	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.4	.0	.6	.0	1.0	.0	.0	.0	.6	.6	.0	.0	1.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	4.5	2.4	2.0	.0	9.4	.6	.6	7.1	4.4	.6	.0	13.2	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1	
1-2	.0	.6	.6	.0	.0	.0	1.1	.0	1.1	.7	.0	.0	.0	.0	1.8	
3-4	.0	1.1	1.4	.0	.0	.0	2.6	.0	1.1	3.6	1.1	.0	.0	.0	6.8	
5-6	.0	.6	4.8	1.4	.0	.0	6.8	.0	.6	3.8	2.4	.0	.0	.0	6.8	
7	.0	.6	2.4	2.1	.0	.0	4.5	.0	.0	1.8	2.3	.7	.0	.0	4.8	
8-9	.0	.0	1.7	2.8	.6	.0	5.1	.0	.0	1.1	.7	.0	.0	.0	1.8	
10-11	.0	.0	.6	1.6	.6	.0	2.7	.0	.0	.0	1.8	.6	.0	.0	2.4	
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.6	.0	.0	.6	
13-16	.0	.0	.0	2.1	1.7	.6	4.4	.0	.0	.0	.1	.6	.0	.0	.6	
17-19	.0	.0	.0	.0	1.7	.0	1.7	.0	.0	.0	.1	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	1.1	.0	.0	.0	1.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.3	11.9	10.5	5.1	.6	30.0	.0	3.0	11.1	9.7	1.8	.0	25.6	98.9	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.3	1.7	.0	.0	.0	.0	4.0	
1-2	.0	4.0	4.5	.0	.0	.0	8.5	
3-4	.0	2.3	9.6	3.4	.0	.0	15.3	
5-6	.0	2.3	15.3	7.3	.0	.0	24.9	
7	.0	.0	7.9	5.6	1.7	.0	15.3	
8-9	.0	.0	4.0	4.5	1.7	.0	10.2	
10-11	.0	.0	1.1	5.1	1.7	.0	7.9	
12	.0	.0	.6	1.1	.6	.0	2.3	
13-16	.0	.0	.6	3.4	3.4	.6	7.9	
17-19	.0	.0	.0	1.1	1.7	.0	2.8	
20-22	.0	.0	.0	.0	.6	.6	1.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.3	10.2	43.5	31.6	11.3	1.1	100.0	177

PERIOD: (OVER-ALL) 1954-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.0	1.9	4.5	6.5	5.5	3.2	1.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	6
6-7	.0	.0	2.3	3.5	3.9	4.5	4.9	.6	2.3	1.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	78	8
8-9	.0	.0	.3	2.6	1.6	3.9	2.9	2.9	1.3	2.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	10
10-11	.0	.6	.6	.3	.0	1.6	.0	.6	.6	.3	.3	.3	1.0	.0	.0	.0	.0	.0	.0	.0	20	12
12-13	.0	.0	.3	.0	.0	.3	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	11
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	20
INDEX	1.3	3.6	3.6	4.2	4.3	2.6	1.6	.6	1.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	6
TOTAL	4	19	36	59	48	50	33	15	21	14	4	2	3	0	0	0	0	0	0	0	308	8
PCT	1.3	6.2	11.7	19.2	15.6	16.2	10.7	4.9	6.8	4.5	1.3	.6	1.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1860-1974

ANNUAL

AREA 0023 ONEKOTAN ISLAND SE
48.5N 155.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/ PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	2.2	.0	1.7	.0	9.0	.1	.0	12.9	4.1	.0	16.1	1.1	.2	.1	65.5
NE	6.8	.1	3.4	.0	12.4	.0	.0	22.1	2.8	.0	19.1	.7	.9	.3	54.2
E	9.2	.3	5.0	.2	9.8	.2	.0	24.6	4.3	.0	22.1	.6	1.0	.1	47.3
SE	12.2	.5	6.6	.0	9.3	.0	.2	27.2	2.7	.0	26.0	1.1	1.2	*	41.8
S	7.1	.7	5.5	.0	6.3	.0	.2	19.2	6.1	.1	26.9	.6	.7	.3	46.1
SW	3.7	.2	1.5	.0	8.7	*	.2	13.5	3.2	.0	23.1	.8	*	.6	58.7
W	1.3	.2	1.4	.1	10.8	*	.3	13.5	6.3	.1	16.1	.8	.7	.4	61.9
NW	1.6	.1	.9	*	10.9	.1	*	13.5	5.6	.0	14.7	.2	.3	.2	65.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8	.0	.4	.0	8.5	.0	.0	9.7	.1	.0	24.0	1.1	1.7	.1	63.3
TOT PCT	4.4	.2	2.6	*	10.2	.1	.1	17.3	4.8	*	20.4	.7	.6	.3	55.9
TOT OBS:	8529														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.8	.3	2.3	.0	10.4	.1	*	16.3	4.8	.0	20.5	.9	.5	.4	56.6
06009	4.2	.1	2.7	*	9.6	.1	.2	16.4	4.7	.1	20.7	.5	.6	.5	56.4
12015	5.0	.2	3.0	.0	10.7	.1	.1	18.8	4.5	*	19.6	.5	.6	.3	55.6
18021	4.5	.4	2.5	.1	9.5	.1	.0	16.9	5.0	.0	20.5	.8	.6	.0	56.3
TOT PCT TOT OBS:	4.3 8793	.2	2.6	*	10.1	.1	.1	17.1	4.7	*	20.3	.7	.6	.3	56.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WNO DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.5	2.9	3.9	2.0	.4	.0		9.7	14.7	10.0	10.6	9.3	13.0	8.9	7.9	9.9	8.0
NE	.6	3.2	3.5	1.8	.3	*		9.4	15.0	10.8	9.7	9.3	9.3	8.9	9.3	8.6	6.8
E	.4	2.6	2.7	1.5	.5	.1		7.8	17.0	8.7	10.8	8.0	7.7	7.3	5.0	7.4	12.2
SE	.5	3.2	2.6	1.2	.3	*		7.8	15.0	6.0	9.5	8.3	10.9	7.2	6.4	6.6	10.1
S	.6	3.2	3.9	1.6	.4	*		9.5	15.8	9.0	10.0	9.5	8.0	9.7	8.3	9.7	9.3
SW	.8	4.2	5.4	2.0	.4	*		12.8	14.9	12.8	12.1	11.5	15.2	14.2	15.8	12.5	12.9
W	.8	5.0	8.9	5.7	1.3	*		21.7	17.0	22.1	19.0	22.3	17.9	23.3	26.3	21.3	18.8
NW	.5	4.7	6.7	5.0	1.8	*		18.7	17.3	18.2	17.4	19.0	16.3	17.7	19.3	19.9	19.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0	2.3	1.0	2.8	1.5	2.8	1.6	4.2	2.5
TOT OBS							7627		15.9	1393	764	1346	622	1270	649	1029	554
TOT PCT	7.2	28.8	37.6	20.8	5.4	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.7	3.9	3.2	.9	.1			9.7	14.7	10.1	10.1	8.8	9.6
NE	1.9	3.8	2.7	.9	.2			9.4	15.0	10.3	9.4	9.1	8.3
E	1.4	3.2	1.9	1.0	.1			7.8	17.0	8.5	7.8	6.9	8.0
SE	1.8	3.4	1.9	.6	.1			7.8	15.0	7.1	9.1	7.3	7.6
S	1.8	4.3	2.5	.7	.2			9.5	15.8	9.5	9.1	9.8	9.7
SW	2.4	5.9	3.5	1.0	.1			12.8	14.9	12.8	12.2	13.6	12.7
W	2.7	7.8	7.1	3.8	.3			21.7	17.0	21.2	21.5	23.2	20.9
NW	2.3	6.3	6.3	3.2	.6			18.7	17.3	18.4	18.4	18.6	19.7
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0	2.0	2.4	2.5	3.7
TOT OBS						7627		15.9		2157	1968	1919	1583
TOT PCT	18.7	38.6	29.0	12.0	1.6			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1860-1974

ANNUAL

AREA 0023 ONEKOTAN ISLAND "E"
48.3N 159.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

	HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
					11-21	22-33	34-47					
0000Z	2.0	4.3	25.9	39.7	21.7	6.2	.2	16.7	100.0	2157		
0600Z	2.4	4.4	30.2	33.6	24.2	4.9	.3	16.2	100.0	1968		
1201Z	2.5	5.1	29.4	37.5	20.4	5.0	.4	15.6	100.0	1919		
1802Z	3.7	5.0	30.0	40.7	15.2	5.4	.0	14.9	100.0	1583		
TOT								15.9		7627		
PCT	2.6	4.7	28.8	37.6	20.8	5.4	.2	100.0				

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	1.0	2.9	4.4		6.2
NE	.6	.5	1.6	5.9		6.8
E	.3	.2	1.0	6.2		7.3
SE	.3	.2	.7	5.8		7.2
S	.8	.6	1.6	6.8		6.8
SW	1.8	1.1	3.6	7.0		6.2
W	2.9	2.6	7.9	9.0		6.0
NW	2.2	2.2	7.3	7.0		5.9
VAR	.0	.0	.0	.0		.0
CALM	.6	.3	.4	1.8		5.2
TOT OBS					5805	6.4
TOT PCT	10.4	8.8	26.9	53.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.3	.4	.4	.8	1.7	2.0	.3	.4	.4	.1	2.7	
NE	1.9	.4	.4	.8	1.5	1.6	.6	.1	.1	.1	1.5	
E	2.5	.1	.4	.8	1.4	1.5	.1	.1	.1	.4	.8	
SE	2.7	.1	.3	.6	1.1	1.1	.3	.1	.1	.4	.8	
S	3.5	.1	.2	.9	1.7	1.0	.4	.4	.1	.1	1.8	
SW	3.2	.4	.2	.9	2.3	2.0	.5	.1	.1	.3	3.8	
W	3.3	.1	.4	1.9	4.5	3.8	.9	.2	.2	.4	7.1	
NW	2.1	.1	.4	2.0	3.7	3.5	1.0	.2	.1	.1	5.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.0	.0	.4	.1	.3	.5	.1	.0	.1	.0	.9	
TOT OBS												5805
TOT PCT	21.4	.6	2.7	8.7	18.1	17.1	4.3	.7	.8	.8	24.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

	VSBY (NM)							
CEILING (FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >6500	.8	1.3	1.4	1.5	1.5	1.5	1.5	1.5
>OR >5000	1.1	1.8	2.1	2.1	2.2	2.2	2.2	2.2
>OR >3500	3.1	5.3	6.2	6.4	6.5	6.6	6.6	6.6
>OR >2000	9.9	18.5	21.9	22.8	23.4	23.6	23.9	23.9
>OR >1000	15.2	29.6	36.9	39.0	40.4	40.9	41.7	41.7
>OR >600	17.1	34.6	44.0	46.7	48.5	49.4	50.2	50.3
>OR >300	17.4	35.4	45.5	48.7	50.8	52.0	52.9	53.0
>OR >150	17.4	35.6	45.8	49.1	51.3	52.6	53.5	53.6
>OR >0	17.6	36.9	49.2	54.5	58.3	64.3	73.4	74.9

TOTAL NUMBER OF OBS: 5888

PCT FREQ NH <5/8: 25.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	4.9	3.0	6.1	4.8	5.4	6.1	8.7	9.6	31.7	6450

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1860-1974

ANNUAL

AREA 0023 ONEKOTAN ISLAND SE
48.5N 155.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.9	.5	.6	.5	.5	.3	.7	.6	.0	.1	4.1	
	NO PCP	.9	1.3	1.7	1.9	2.6	2.8	1.9	1.3	.0	.9	15.3	
	TOT %	1.2	1.8	2.3	2.5	3.1	3.1	2.6	1.9	.0	.9	19.4	
1/2<1	PCP	.2	.3	.2	.2	.3	.1	.5	.3	.0	.0	2.2	
	NO PCP	.2	.3	.3	.4	.3	.2	.3	.3	.0	.1	2.2	
	TOT %	.4	.5	.5	.6	.6	.3	.8	.7	.0	.1	4.4	
1<2	PCP	.3	.3	.4	.4	.3	.2	.7	.6	.0	.1	3.3	
	NO PCP	.2	.3	.4	.2	.3	.2	.4	.5	.0	.1	2.6	
	TOT %	.5	.6	.7	.7	.6	.5	1.2	1.1	.0	.1	5.9	
2<5	PCP	.4	.7	.5	.5	.5	.6	.8	1.0	.0	.1	5.0	
	NO PCP	.8	.8	.9	.6	.8	.9	1.9	1.6	.0	.3	8.6	
	TOT %	1.2	1.5	1.3	1.1	1.2	1.6	2.7	2.7	.0	.3	13.6	
5<10	PCP	.2	.2	.2	.3	.3	.3	.5	.5	.0	.1	2.5	
	NO PCP	2.3	1.8	1.3	1.1	1.9	2.9	5.5	4.9	.0	.4	22.1	
	TOT %	2.5	2.0	1.5	1.4	2.2	3.2	6.0	5.4	.0	.4	24.6	
10+	PCP	.1	.1	.1	.1	.1	.1	.2	.1	.0	.1	.5	
	NO PCP	3.6	2.6	1.5	1.3	1.9	4.4	8.1	6.9	.0	1.1	31.5	
	TOT %	3.6	2.7	1.6	1.4	2.0	4.5	8.3	7.0	.0	1.1	32.0	
TOT OBS													8486
TOT PCT													9.4 9.0 7.9 7.6 9.7 13.2 21.6 18.7 .0 2.8 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.2	.3	.2	.3	.5	.3	.2	.0	.9	3.1	
	4-10	.6	.9	.9	1.1	1.3	1.5	1.3	1.1	.0	.1	8.8	
	11-21	.5	.6	.7	.8	1.1	1.0	.9	.5	.0	.1	6.1	
	22+	.1	.6	.4	.4	.4	.2	.6	.5	.0	.1	3.2	
	TOT %	1.4	2.3	2.3	2.5	3.1	3.2	3.2	2.3	.0	.9	21.2	
1/2<1	0-3	*	.1	.0	*	*	*	*	*	.0	*	.3	
	4-10	.1	.1	.1	.2	.2	.2	.2	.1	.0	.1	1.2	
	11-21	.1	.2	.2	.2	.2	.1	.2	.2	.0	.1	1.4	
	22+	.1	.1	.2	.1	.1	.1	.4	.2	.0	.1	1.3	
	TOT %	.3	.5	.5	.5	.5	.3	.9	.6	.0	*	4.1	
1<2	0-3	*	*	*	*	*	*	*	*	.0	.1	.3	
	4-10	.1	.2	.2	.3	.1	.1	.3	.1	.0	.1	1.4	
	11-21	.1	.2	.2	.2	.2	.1	.4	.4	.0	.1	1.8	
	22+	.2	.2	.4	.3	.2	.1	.4	.5	.0	.1	2.2	
	TOT %	.5	.5	.8	.8	.6	.4	1.1	1.1	.0	.1	5.8	
2<5	0-3	*	*	*	*	.1	.1	*	*	.0	.3	.6	
	4-10	.4	.4	.3	.5	.3	.5	.5	.5	.0	.1	3.4	
	11-21	.4	.5	.4	.3	.5	.6	.9	.8	.0	.1	4.4	
	22+	.4	.6	.4	.3	.5	.5	1.2	1.4	.0	.1	5.3	
	TOT %	1.3	1.5	1.1	1.2	1.4	1.7	2.6	2.7	.0	.3	13.7	
5<10	0-3	.1	.1	.1	.1	.1	.1	.1	*	.0	.3	1.0	
	4-10	.6	.5	.4	.4	.5	.8	.8	1.0	.0	.1	5.1	
	11-21	1.1	.9	.6	.5	.9	1.5	2.3	2.0	.0	.1	9.9	
	22+	.9	.4	.3	.3	.6	.7	2.3	2.3	.0	.1	8.0	
	TOT %	2.7	1.8	1.4	1.3	2.0	3.1	6.0	5.4	.0	.3	24.0	
10+	0-3	.1	.1	*	.1	*	.1	.3	.2	.0	.9	1.9	
	4-10	1.1	1.1	.6	.7	.8	1.2	1.8	1.8	.0	.1	9.2	
	11-21	1.8	1.2	.6	.4	.9	2.0	4.1	2.8	.0	.1	13.9	
	22+	.6	.4	.3	.2	.2	.7	1.8	1.9	.0	.1	6.2	
	TOT %	3.6	2.8	1.6	1.4	1.9	4.1	8.1	6.7	.0	.9	31.2	
TOT OBS													7400
TOT PCT													9.8 9.5 7.7 7.7 9.5 12.8 21.7 18.7 .0 2.5 100.0

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1860-1974

ANNUAL

AREA 0023 ONEKOTAN ISLAND SE
48.5N 155.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	18.5	.9	2.9	9.5	18.8	17.8	4.5	.9	.8	.7	75.3	24.7	1920
06009	19.5	.5	2.8	8.9	18.4	19.5	5.7	.4	.6	.6	77.0	23.0	1707
12015	25.6	.2	2.1	7.1	15.3	13.4	3.2	.3	1.4	1.0	69.7	30.3	1346
18021	23.7	.6	2.4	7.8	17.5	16.1	3.1	1.1	.2	.7	73.2	26.8	1110
TOT PCT	21.2	.6	2.7	8.5	17.7	17.1	4.3	.7	.8	.7	74.2	25.8	6083 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	20.8	4.2	5.8	13.2	20.8	35.4	2725
06009	20.7	4.3	5.8	13.1	22.8	33.3	2443
12015	21.3	4.4	7.3	15.9	25.2	25.8	2316
18021	21.7	4.9	6.4	14.4	26.2	26.5	1921
TOT PCT	21.0	4.4	6.2	14.1	23.5	30.7	9405 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	18.7	27.0	46.7	30.8	22.5	1863
06009	19.8	26.6	44.7	34.2	21.1	1667
12015	26.0	31.6	50.4	23.6	26.0	1289
18021	24.0	31.7	50.1	27.3	22.6	1069
TOT PCT	21.4	28.6	47.5	29.6	22.9	5888 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/64	.0	.0	.0	.0	.1	.1	.1	.0	.3	
55/59	.0	.0	.0	.1	.1	.3	1.1	1.3	2.8	
50/54	.0	.0	.1	.2	.3	1.0	3.6	7.4	12.5	
45/49	.0	.0	.0	.0	.4	1.2	3.1	9.2	13.9	
40/44	.0	.0	.1	.5	.7	1.9	4.0	7.7	14.8	
35/39	.0	.1	.1	.4	1.1	3.0	6.0	8.5	19.3	
30/34	.0	.0	.2	.7	1.5	2.2	5.8	8.9	19.3	
25/29	.0	.0	.0	.5	.9	1.8	2.5	5.1	10.9	
20/24	.0	.0	.0	.0	.3	.8	1.4	2.2	4.7	
15/19	.0	.0	.0	.1	.1	.1	.2	1.1	1.6	
TOTAL PCT	.0	.1	.5	2.4	5.4	12.6	27.8	51.3	1942	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.1	.1	.1	.0	.0	.0	.0
.2	.3	.2	.4	.3	.4	.5	.4	.0	.0
.9	.6	1.6	1.6	2.0	1.9	2.2	1.3	.0	.3
1.1	.8	1.0	1.4	1.5	2.1	4.0	1.7	.0	.2
.9	1.3	2.0	1.4	2.1	2.2	3.1	1.7	.0	.1
2.2	2.1	2.0	1.5	1.7	2.5	4.4	2.8	.0	.1
2.3	2.4	1.4	1.0	1.4	2.4	5.0	3.3	.0	.2
1.4	.5	.5	.5	.1	.5	2.8	4.5	.0	.0
.2	.2	.1	.2	.2	.1	2.0	1.7	.0	.0
.0	.0	.0	.0	.0	.1	1.3	.2	.0	.0
9.3	8.2	8.8	8.1	9.4	12.2	25.3	17.7	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	69	50	47	39	30	27	10	40.1	2697
06009	68	50	46	38	30	27	10	39.4	2385
12015	63	46	44	36	29	25	10	38.1	2319
18021	68	47	43	36	29	26	10	38.1	1906
TOT	69	49	45	37	29	26	10	39.0	9307

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.1	6.9	16.7	30.4	43.8	87	613
06009	.0	3.4	4.6	12.6	28.6	50.7	88	548
12015	.0	2.8	4.9	7.9	27.5	56.9	90	445
18021	.0	3.7	4.0	11.2	22.9	58.1	90	347
TOT	0	46	86	221	534	1066	89	1953

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1860-1974

ANNUAL

AREA 0023 ONEKOTAN ISLAND SE
48.9N 159.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIFF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	*	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	*	*
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	.2	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	110	.6	.6
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	126	.5	.9
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	256	1.2	1.6
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	.3	.8
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	409	1.8	2.9
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	570	2.7	3.8
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	263	.7	2.5
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	816	3.5	6.1
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	374	1.0	3.8
0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	989	3.5	8.5
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	324	.7	3.6
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	604	1.6	6.3
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	261	.4	3.2
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	403	.8	4.8
-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	367	.4	5.2
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	171	.2	2.5
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	328	.2	4.8
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	305	.2	4.9
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	365	.2	5.8
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	204	.1	3.3
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	*	1.7
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	*	1.0
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	.0	.4
-26/-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.1
<-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL																	7573		
PCT	.4	1.2	2.8	9.8	11.0	12.3	13.8	13.2	11.8	13.6	8.4	4.1	1.1	.4	.1	*	100.0	20.7	79.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	*	.0	.0	.0	.6	.2	.9	.1	.0	.0	.0	1.1
1-2	.0	.8	.6	.0	.0	.0	1.4	.0	1.1	.7	.0	.0	.0	1.8
3-4	.0	.6	1.3	.4	.0	.0	2.2	.0	.4	1.2	.3	.0	.0	1.9
5-6	.0	.2	1.3	.4	.0	.0	2.0	.0	.1	.9	.2	*	.0	1.2
7	.0	.1	.5	.4	.1	.0	1.0	.0	.1	.4	.4	*	.0	1.0
8-9	.0	.0	.3	.4	.0	.0	.7	.0	.1	.2	.2	*	.0	.5
10-11	.0	.0	.1	.4	.1	.0	.6	.0	.0	.1	.1	.1	.0	.3
12	.0	.0	.1	.1	.0	.0	.2	.0	.0	*	.1	.0	.1	.2
13-16	.0	.0	.1	.3	*	.0	.3	.0	.0	*	.2	.1	.0	.3
17-19	.0	.0	.0	.0	*	.0	*	.0	.0	.0	*	.1	.0	.1
20-22	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.1	4.2	2.4	.3	.0	9.1	.2	2.6	3.6	1.6	.4	.1	8.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.1	.0	.0	.0	1.0	.2	.7	.1	.0	.0	.0	.9
1-2	.0	1.1	.5	.0	.0	.0	1.6	.0	1.0	.9	.0	.0	.0	2.0
3-4	.0	.5	.7	.4	.0	.0	1.6	.0	.5	.9	.3	.0	.0	1.7
5-6	.0	.1	.9	.4	*	.0	1.4	.0	.1	.5	.4	*	.0	1.0
7	.0	.0	.4	.2	.1	.0	.7	.0	*	.1	.3	*	.0	.4
8-9	.0	.0	.1	.2	.1	.0	.3	.0	.0	*	.2	.1	.0	.3
10-11	.0	.0	.1	.2	*	.0	.1	.0	.0	.1	.1	.1	.0	.3
12	.0	.0	.0	.1	.1	.0	.5	.0	.0	*	.1	*	.0	.1
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	*	*	*	.0	*
17-19	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.6	2.9	1.7	.5	.1	7.9	.3	2.4	2.6	1.6	.4	*	7.3

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

TABLE 18 (CONT)

AREA 0023 ONEKOTAN ISLAND SE
48.5N 159.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.2	.0	.0	.0	1.2	.3	.7	.0	.0	.0	.0	1.1
1-2	.1	1.0	.9	.0	.0	.0	1.9	.1	1.6	1.0	.0	.0	.0	2.7
3-4	.0	.4	1.2	.3	.0	.0	1.9	.0	.7	2.1	.4	.0	.0	3.2
5-6	.0	.2	1.1	.4	.0	.0	1.7	.0	.2	1.6	.5	.0	.0	2.4
7	.0	.0	.5	.5	.0	.0	1.1	.0	.1	.8	.6	.0	.0	1.5
8-9	.0	.0	.2	.2	.1	.0	.5	.0	.1	.3	.2	.0	.0	.7
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.1	.4	.0	.0	.6
12	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.4	4.3	1.7	.4	.0	9.1	.5	3.5	6.0	2.5	.3	.0	12.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.9	.0	.0	.0	.0	1.2	.1	.7	.1	.0	.0	.0	.8	
1-2	.1	1.4	1.5	.0	.0	.0	2.9	.1	1.6	1.2	.0	.0	.0	2.9	
3-4	.0	.9	2.9	.4	.0	.0	4.3	.0	.6	2.1	.6	.0	.0	3.4	
5-6	.0	.4	2.7	.9	.1	.0	4.1	.0	.4	2.0	.9	.1	.0	3.3	
7	.0	.0	1.6	1.7	.1	.0	3.4	.0	.0	1.2	1.5	.4	.0	3.2	
8-9	.0	.1	.5	1.6	.2	.0	2.5	.0	.0	.6	1.0	.1	.0	1.7	
10-11	.0	.0	.4	.9	.2	.0	1.5	.0	.0	.3	1.1	.2	.0	1.7	
12	.0	.0	.0	.4	.1	.0	.5	.0	.0	.1	.4	.3	.0	.8	
13-16	.0	.0	.1	.8	.3	.0	1.2	.0	.0	.1	.3	.5	.0	.9	
17-19	.0	.0	.1	.2	.2	.0	.5	.0	.0	.1	.3	.1	.0	.4	
20-22	.0	.0	.0	.1	.2	.0	.2	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.7	4.9	6.9	1.5	.1	22.4	.1	3.3	7.7	6.3	1.9	.0	19.3	96.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.9	6.0	.6	.0	.0	.0	11.5	
1-2	.4	9.4	7.3	.0	.0	.0	17.2	
3-4	.1	4.6	12.5	3.0	.0	.0	20.2	
5-6	.0	1.7	11.0	4.0	.3	.0	17.1	
7	.0	.4	5.4	5.6	.8	.0	12.2	
8-9	.0	.3	2.2	4.1	.6	.0	7.2	
10-11	.0	.1	1.2	3.5	.8	.0	5.7	
12	.0	.0	.3	1.5	.6	.1	2.5	
13-16	.0	.0	.5	2.1	1.4	.0	4.1	
17-19	.0	.0	.1	.6	.6	.0	1.4	
20-22	.0	.0	.0	.1	.4	.0	.6	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.5	22.6	41.2	24.8	5.8	.2	100.0	3414

PERIOD: (OVER-ALL) 1952-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	5.9	8.4	6.3	3.7	1.5	.8	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1961	4
6-7	.1	.9	4.1	5.3	3.0	3.2	2.6	1.4	1.2	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	1353	7
8-9	.1	.3	1.1	2.4	3.1	2.4	2.1	1.3	1.9	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	886	9
10-11	.0	.6	.5	1.0	1.0	.9	.9	.5	.8	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	363	9
12-13	.0	.0	.9	.6	.4	.3	.2	.2	.4	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	193	9
>13	.0	.0	.0	.4	.2	.2	.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	99	11
INDET	2.9	2.6	3.9	3.0	2.7	1.1	1.2	.6	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1096	5
TOTAL PCT	3.9	10.3	18.9	19.0	16.1	9.6	8.0	4.3	5.6	2.5	1.2	.3	.3	.0	.0	.0	.0	.0	.0	5971	7

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1860-1974

TABLE 20

AREA 0023 ONEKOTAN ISLAND SE
48.3N 155.0E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	3	.8
61/62	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	2	.8
59/60	.0	.0	.0	.0	.0	.0	.1	.4	.6	.0	.0	.0	10	.1
57/58	.0	.0	.0	.0	.0	.1	.3	1.0	.7	.0	.0	.0	19	.2
55/56	.0	.0	.0	.0	.0	.2	.9	3.1	2.9	.7	.0	.0	68	.8
53/54	.0	.0	.0	.0	.0	.1	1.4	8.1	9.9	2.9	.3	.0	191	2.2
51/52	.0	.0	.0	.0	.1	.8	2.9	11.6	13.5	5.2	.9	.0	291	3.4
49/50	.0	.0	.0	.0	.1	.3	8.3	18.9	16.2	9.3	2.4	.0	462	5.4
47/48	.0	.0	.0	.0	.4	1.0	12.9	13.8	15.8	10.0	1.8	1.3	473	5.5
45/46	.0	.0	.4	.2	.6	3.5	26.0	19.6	21.3	27.2	9.8	1.1	859	10.1
43/44	1.0	.7	.9	.4	.8	9.7	14.1	8.3	7.6	17.9	8.5	3.2	542	6.3
41/42	3.8	2.2	1.9	1.9	1.8	14.0	13.9	6.0	5.8	14.1	18.9	4.2	610	7.1
39/40	6.2	2.3	4.0	3.1	8.1	24.9	9.8	5.1	4.5	7.4	22.3	13.0	749	8.8
37/38	15.9	8.6	8.1	8.4	19.7	25.7	7.6	3.5	1.0	3.4	21.0	27.9	984	11.5
35/36	27.1	21.5	18.2	25.3	36.0	13.1	1.4	.3	.0	1.4	8.8	30.2	1217	14.2
33/34	29.7	36.4	29.6	36.2	25.6	5.9	.3	.0	.0	.3	3.4	13.3	1232	14.4
31/32	13.1	20.1	28.9	20.3	5.8	.5	.0	.0	.0	.0	1.5	3.7	650	7.6
29/30	2.0	7.5	7.5	3.3	1.0	.0	.0	.0	.0	.0	.3	1.3	154	1.8
27/28	1.2	.5	.7	.9	.0	.0	.0	.0	.0	.0	.0	.8	25	.3
25/26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
23/24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
21/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
19/20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
17/18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
15/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
13/14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
11/12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
5/6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
3/4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	502	557	804	809	894	913	1007	930	840	580	328	377	8541	100.0
MEAN	35.1	34.1	33.9	34.3	35.8	39.0	44.2	47.4	47.9	44.8	40.1	36.7	39.4	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MC	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1004	1002	1004	1000	1004	1000	1004	1002	1004	541
FEB	1005	1004	1004	1008	1004	1008	1003	1008	1004	603
MAR	1008	1004	1007	1008	1008	1008	1009	1005	1008	890
APR	1013	1009	1012	1009	1014	1010	1012	1010	1012	936
MAY	1013	1010	1012	1011	1013	1011	1013	1011	1012	978
JUN	1013	1011	1013	1011	1013	1010	1012	1009	1012	921
JUL	1012	1011	1012	1011	1013	1011	1012	1011	1012	1163
AUG	1011	1011	1010	1010	1012	1010	1011	1011	1011	1021
SEP	1016	1011	1016	1011	1016	1011	1015	1010	1014	848
OCT	1014	1009	1012	1008	1012	1007	1014	1005	1012	617
NOV	1008	1012	1008	1007	1008	1006	1009	988	1008	292
DEC	1006	1005	1006	1007	1007	1011	1005	1009	1006	381
ANN	1010	1008	1010	1008	1010	1009	1010	1007	1010	9191
OBS	1886	777	1731	612	1644	672	1309	560		

PERCENTILES

MC	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	978	981	987	997	1004	1011	1018	1021	1026
FEB	977	981	988	997	1004	1012	1021	1024	1029
MAR	977	981	988	1003	1009	1015	1023	1028	1032
APR	983	986	993	1004	1013	1020	1028	1032	1034
MAY	985	989	996	1006	1012	1018	1025	1029	1032
JUN	988	992	1000	1007	1012	1016	1022	1025	1032
JUL	990	993	1000	1008	1012	1016	1022	1027	1032
AUG	990	994	998	1006	1012	1016	1021	1025	1032
SEP	985	990	1000	1008	1014	1019	1028	1032	1035
OCT	983	986	994	1005	1012	1019	1028	1032	1033
NOV	979	981	988	1002	1009	1015	1025	1028	1031
DEC	978	979	986	998	1007	1014	1026	1028	1030

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

JANUARY

TABLE 1

AREA 0024 SOYA STRAIT W
45.3N 140.8E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE																OTHER WEATHER PHENOMENA									
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA										
N	.0	.0	.0	.2	44.6	.0	.5	45.3	5.4	.0	.0	.0	.8	.5	47.1										
NE	.0	.0	.0	.0	30.9	.0	.0	30.9	5.4	.0	.0	.7	.0	.0	62.8										
E	1.6	.0	.0	.0	39.2	.0	.0	39.2	2.8	.0	.0	.0	.0	.0	58.0										
SE	4.5	.0	.0	.0	23.3	.0	.0	27.8	9.0	.0	.0	.0	.0	.0	63.2										
S	3.3	.0	.0	.0	49.2	.0	.0	52.5	.0	.0	.0	.0	.0	.0	47.5										
SW	3.0	.0	.0	.0	24.6	.0	.0	24.6	.0	.0	.0	.0	.0	.0	72.4										
W	1.8	.0	.0	.0	25.1	.0	.0	26.9	1.6	.0	.3	.0	.0	.0	71.5										
NW	.0	.0	.0	.3	29.5	.0	.0	29.8	2.7	.0	.3	.0	.6	.0	66.4										
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0										
CALM	.0	.0	.0	.0	21.1	.0	.0	21.1	.0	.0	.0	.0	.0	.0	76.9										
TOT PCT	.7																								
TOT OBS:	825	.0	.0	.1	33.6	.0	.1	34.3	3.8	.0	.5	.1	.4	.1	60.8										

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	.9	.0	.0	.0	32.4	.0	.0	33.3	3.6	.0	.4	.0	.4	.4		61.8
06009	1.3	.0	.0	.0	37.0	.0	.0	37.8	3.5	.0	.9	.0	.9	.0		56.5
12015	.0	.0	.0	.4	34.9	.0	.4	35.7	4.8	.0	.4	.0	.0	.4		58.6
18021	.6	.0	.0	.0	30.8	.0	.0	30.8	3.2	.0	.0	.0	.0	.0		66.0
TOT PCT TOT OBS:	.7 860	.0	.0	.1	34.1	.0	.1	34.8	3.8	.0	.5	.1	.3	.2		60.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	.2	5.9	10.6	7.9	1.6	.0		26.3	18.7	26.4	16.3	29.4	29.0	30.7	26.6	21.7	25.7	
NE	.8	3.4	8.3	4.0	.4	.0		16.9	16.3	14.3	14.9	13.4	20.3	19.1	16.8	18.9	16.2	
E	.2	3.3	3.4	1.0	.2	.0		8.1	14.0	4.4	14.6	5.6	5.0	7.8	9.8	7.6	11.3	
SE	.5	2.0	1.5	.2	.2	.0		4.3	11.3	6.0	4.2	2.5	5.4	2.5	5.3	3.3	5.0	
S	.1	.7	.8	.3	.1	.0		2.0	13.8	.8	2.2	2.3	5.0	1.6	1.2	.0	2.3	
SW	.1	.9	1.7	.6	.3	.0		3.7	16.7	3.6	6.2	3.1	1.5	3.3	6.6	2.5	2.3	
W	.1	2.4	6.6	4.2	.3	.0		13.6	17.6	18.3	13.4	16.3	8.9	9.2	13.5	11.9	14.0	
NW	.5	5.3	10.8	5.9	.8	.0		23.3	17.1	24.4	26.1	22.1	25.0	22.5	20.1	27.5	21.6	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.9							.0	.0	1.6	.0	3.3	.0	3.3	.0	6.6	1.8	
TOT OBS	37	203	372	203	33	0	850	1.9	.0	124	89	120	101	122	122	61	111	
TOT PCT	4.4	23.9	43.8	24.1	3.9	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	2.7	9.0	9.2	4.7	.6		26.3	18.7	22.2	29.2	28.7	24.3
NE	1.9	7.8	5.3	1.9	.0		16.9	16.3	14.6	17.6	17.9	17.2
E	1.4	3.7	2.6	.5	.0		8.1	14.0	8.7	5.3	8.8	10.0
SE	1.5	1.9	.6	.2	.0		4.3	11.3	5.3	3.8	3.9	4.4
S	.7	.6	.4	.3	.0		2.0	13.8	1.4	3.5	1.4	1.5
SW	.4	1.5	1.2	.5	.0		3.7	16.7	4.7	2.4	4.9	2.3
W	1.0	5.3	6.1	1.2	.0		13.6	17.6	17.1	12.9	11.4	13.2
NW	2.9	8.6	8.5	3.1	.2		23.3	17.1	23.1	23.4	21.3	23.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						.0	.0	.9	1.8	1.6	3.5
TOT OBS	122	327	289	105	7	850	1.9	.0	213	221	244	172
TOT PCT	14.4	38.5	34.0	12.4	.8		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

JANUARY

AREA 0024 SDVA STRAIT W
45.9N 140.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	.9	2.3	23.5	45.5	23.9	3.6	.0	16.7	100.0	213
0600	1.8	2.3	20.8	47.1	24.0	4.1	.0	16.9	100.0	221
1200	1.6	2.0	20.1	44.7	27.9	3.7	.0	17.2	100.0	244
1800	3.5	3.5	33.7	36.0	19.2	4.1	.0	14.9	100.0	172
TOT	16	21	203	372	205	33	0	16.6		850
PCT	1.9	2.5	23.9	43.8	24.1	3.9	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.9	.8	10.5	13.4		6.6
NE	.6	1.5	6.5	6.3		6.4
E	1.2	.0	1.6	2.4		5.9
SE	.5	.8	1.4	1.6		6.0
S	.0	.2	.5	.8		7.1
SW	1.2	.4	2.2	.8		5.0
W	3.2	2.8	5.2	3.0		4.8
NW	6.2	2.1	9.3	7.5		5.1
VAR	.0	.0	.0	.0		.0
CALM	1.3	.3	1.3	.8		4.2
TOT OBS	63	34	150	142	389	5.7
TOT PCT	16.2	8.7	38.6	36.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	3.3	.0	.3	1.8	6.7	7.5	1.7	.4	.0	.5	4.3	
NE	.8	.0	.3	.6	2.4	4.4	1.5	.1	.0	.3	4.6	
E	.2	.0	.0	.3	1.0	1.4	.5	.5	.0	.0	1.4	
SE	.5	.0	.0	.3	.6	.6	.5	.0	.0	.3	1.6	
S	.3	.0	.0	.3	.3	.3	.3	.0	.0	.0	.2	
SW	.3	.0	.0	.0	.6	1.7	.3	.0	.0	.0	1.8	
W	.8	.0	.4	.0	1.2	3.0	1.5	.0	.0	.3	6.9	
NW	1.5	.0	.3	.4	3.8	6.2	.6	.3	.0	.3	9.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.0	.0	.0	.8	.5	.0	.0	.3	1.5	
TOT OBS	32	0	5	14	64	108	29	5	0	7	125	389
TOT PCT	8.2	.0	1.3	3.6	16.5	27.8	7.5	1.3	.0	1.8	32.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7
>5000	1.7	2.9	2.9	2.9	2.9	2.9	2.9	2.9
>3500	6.1	9.8	10.2	11.0	11.0	11.0	11.2	11.2
>2000	19.3	30.5	35.4	36.3	38.0	38.3	38.8	38.8
>1000	25.9	41.0	48.8	50.2	53.2	54.4	55.1	55.1
>600	26.3	42.2	50.5	53.2	56.3	57.8	58.5	58.5
>300	26.6	42.4	51.2	53.9	57.1	58.8	59.5	59.5
>150	26.6	42.4	51.2	53.9	57.1	58.8	59.5	59.5
>0	26.6	44.1	54.4	58.8	63.9	67.1	68.3	68.3
TOTAL	109	181	223	241	262	275	280	280

TOTAL NUMBER OF OBS: 410

PCT FREQ NH <5/8: 31.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.1	2.2	6.0	5.6	4.4	5.1	15.3	13.6	28.7	8.0	450

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

JANUARY

AREA 0024 SOVA STRAIT W
45.5N 140.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	2.4	.8	.8	.4	.4	.2	1.5	1.9	.0	.1	8.6	
	NO PCP	.3	.2	.0	.1	.0	.0	.1	.2	.0	.0	.8	
	TOT %	2.7	1.0	.8	.5	.4	.2	1.6	2.0	.0	.1	9.4	
1/2<1	PCP	2.7	.7	.4	.2	.1	.4	.3	1.0	.0	.1	5.9	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.1	.4	
	TOT %	2.8	.7	.4	.2	.1	.4	.3	1.1	.0	.2	6.3	
1<2	PCP	1.2	1.0	.7	.0	.2	.*	.6	.4	.0	.0	4.2	
	NO PCP	.3	.1	.0	.0	.0	.1	.1	.*	.0	.0	.7	
	TOT %	1.5	1.1	.7	.0	.2	.2	.8	.5	.0	.0	4.9	
2<5	PCP	2.9	1.4	.8	.2	.2	.0	.7	2.3	.0	.2	8.8	
	NO PCP	.9	.7	.2	.0	.0	.1	.2	.7	.0	.0	2.9	
	TOT %	3.8	2.1	1.1	.2	.2	.1	.9	3.0	.0	.2	11.7	
5<10	PCP	2.4	1.1	.1	.2	.0	.4	.5	1.4	.0	.0	6.0	
	NO PCP	5.6	3.3	1.0	.8	.4	.6	2.7	5.3	.0	.4	20.0	
	TOT %	7.9	4.3	1.1	1.0	.4	1.0	3.1	6.8	.0	.4	26.1	
10+	PCP	.6	.2	.0	.0	.0	.0	.0	.2	.0	.0	1.1	
	NO PCP	7.0	7.4	3.3	2.0	.5	2.2	6.6	10.2	.0	1.3	40.5	
	TOT %	7.6	7.6	3.3	2.0	.5	2.2	6.6	10.5	.0	1.3	41.6	
TOT OBS													
TOT PCT													
		26.4	16.8	7.4	4.0	1.8	4.0	13.2	23.9	.0	2.3	100.0	829

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.4	.0	.1	.2	.1	.0	.1	.3	.0		1.3	
	11-21	.9	.4	.4	.2	.3	.1	.8	.7	.0		3.9	
	22+	1.2	.3	.3	.1	.0	.1	.5	.9	.0		3.3	
	TOT %	2.6	.7	.8	.4	.4	.2	1.5	1.9	.0	.0	8.6	
1/2<1	0-3	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.4	
	4-10	.2	.1	.2	.0	.0	.0	.0	.0	.0		.5	
	11-21	1.5	.1	.1	.1	.2	.2	.3	.4	.0		2.0	
	22+	1.5	.4	.1	.1	.0	.1	.2	.7	.0		3.1	
	TOT %	3.1	.7	.4	.2	.2	.5	.5	1.1	.0	.1	6.9	
1<2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.3	.2	.4	.0	.2	.1	.2	.2	.0		1.7	
	11-21	.5	.7	.3	.1	.1	.1	.2	.5	.0		2.6	
	22+	.5	.3	.2	.0	.0	.1	.6	.4	.0		2.1	
	TOT %	1.3	1.3	1.1	.1	.3	.3	1.0	1.1	.0	.0	6.5	
2<5	0-3	.0	.0	.1	.2	.0	.0	.0	.0	.0	.1	.5	
	4-10	.8	.5	.4	.3	.0	.0	.2	.7	.0		3.0	
	11-21	1.9	1.1	.5	.2	.0	.0	.7	1.3	.0		5.7	
	22+	2.1	1.1	.5	.1	.2	.1	.7	1.4	.0		6.2	
	TOT %	4.8	2.7	1.5	.9	.2	.1	1.7	3.4	.0	.1	15.3	
5<10	0-3	.0	.4	.0	.0	.1	.0	.0	.0	.0	.4	.8	
	4-10	1.5	1.0	.5	.8	.1	.1	.4	1.3	.0		5.7	
	11-21	3.0	1.9	.6	.2	.1	.6	1.6	3.2	.0		11.2	
	22+	2.6	1.1	.0	.0	.1	.1	.9	1.8	.0		6.5	
	TOT %	7.1	4.2	1.1	1.0	.4	.8	2.9	6.3	.0	.4	24.2	
10+	0-3	.2	.2	.1	.2	.0	.0	.1	.5	.0	1.3	2.6	
	4-10	2.5	1.6	1.6	.7	.2	.7	1.5	2.7	.0		11.5	
	11-21	3.0	4.0	1.4	.7	.1	.7	2.8	4.7	.0		17.5	
	22+	1.6	1.4	.1	.1	.1	.4	1.5	1.6	.0		6.9	
	TOT %	7.3	7.1	3.3	1.7	.4	1.8	6.0	9.5	.0	1.3	38.5	
TOT OBS													
TOT PCT													
		26.2	16.8	8.2	4.4	2.0	3.7	13.5	23.4	.0	1.9	100.0	842

JANUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974AREA 0024 SOVA STRAIT W
45.3N 140.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	6.8	.0	2.3	3.8	15.8	28.6	7.5	.8	.0	3.0	68.4	31.6	133
06009	8.9	.0	.7	3.7	17.8	32.6	8.9	2.2	.0	1.5	76.3	23.7	133
12015	12.5	.0	1.0	3.8	18.3	22.1	8.7	1.0	.0	.0	67.3	32.7	104
18021	7.0	.0	.0	.0	9.3	18.6	7.0	.0	.0	2.3	44.2	55.8	43
TOT	37	0	3	14	68	113	34	5	0	7	283	132	415
PCT	8.9	.0	1.2	3.4	16.4	27.2	8.2	1.2	.0	1.7	68.2	31.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	11.1	4.7	4.7	11.9	21.3	46.4	235
06009	8.3	7.7	6.9	17.4	19.8	39.7	247
12015	8.9	8.1	9.9	18.3	24.8	33.7	270
18021	8.9	3.9	11.2	11.2	34.1	30.7	179
TOT	87	59	64	141	227	353	931
PCT	9.3	6.3	6.9	15.1	24.4	37.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	6.2	15.4	25.4	43.1	31.5	130
06009	8.9	13.3	31.9	45.9	22.2	133
12015	12.6	20.4	36.9	34.0	29.1	103
18021	7.1	9.3	11.9	35.7	52.4	42
TOT	36	63	119	168	123	410
PCT	8.8	15.4	29.0	41.0	30.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
30/34	.0	.0	.0	.0	2.9	5.7	2.9	.0	4	11.4
29/29	.0	.0	.0	.0	2.9	2.9	.0	2.9	3	8.6
20/24	.0	.0	.0	22.9	20.0	5.7	2.9	5.7	20	57.1
19/19	.0	.0	.0	2.9	9.7	5.7	2.9	.0	6	17.1
10/14	.0	.0	.0	.0	.0	5.7	.0	.0	2	5.7
TOTAL	0	0	0	9	11	9	3	3	35	100.0
PCT	.0	.0	.0	25.7	31.4	25.7	8.6	8.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
30/34	.0	.7	5.0	5.7	.0	.0	.0	.0	.0	.0
29/29	2.1	2.9	.0	.0	.0	2.9	.0	.7	.0	.0
20/24	20.7	2.9	2.1	.7	.0	.0	5.7	25.0	.0	.0
19/19	5.0	.0	.0	.0	.0	.0	2.1	10.0	.0	.0
10/14	.0	.0	.0	.0	.0	2.9	.0	2.9	.0	.0
TOTAL	27.9	6.4	7.1	6.4	.0	5.7	7.9	38.6	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	45	41	37	27	14	9	4	26.6	229
06009	41	39	36	27	13	10	7	26.2	239
12015	45	39	36	27	14	9	3	26.2	268
18021	45	39	34	27	14	7	7	25.5	178
TOT	45	39	36	27	14	9	4	26.2	914

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	7.1	50.0	21.4	14.3	7.1	71	14
06009	.0	50.0	10.0	20.0	.0	20.0	68	10
12015	.0	28.6	28.6	28.6	14.3	.0	67	7
18021	.0	25.0	25.0	50.0	.0	.0	63	4
TOT	0	9	11	9	3	3	69	35

JANUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

TABLE 17

AREA 0024 SOVA STRAIT W
45.5N 140.8EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	NO FOG
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
4	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	.1	.0	6	.0	.8
3	.0	.0	.0	.0	.0	.0	.0	.4	.3	.3	.0	.1	8	.0	1.1
2	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	2	.0	.3
1	.0	.0	.0	.0	.0	.0	.0	2.4	1.0	.1	.0	.0	25	.0	3.5
0	.0	.0	.0	.0	.0	.0	.0	.8	.1	.0	.0	.0	7	.0	1.0
-1	.0	.0	.0	.0	.0	.0	.0	1.4	1.8	1.4	.6	.0	38	.0	5.3
-2	.0	.0	.0	.0	.0	.0	.3	.3	.7	.3	.0	.0	11	.0	1.5
-3	.0	.0	.0	.0	.0	.0	.0	2.4	2.4	1.3	.3	.0	45	.0	6.3
-4	.0	.0	.0	.0	.0	.1	2.4	2.6	1.3	.4	.0	.0	49	.0	6.8
-5	.0	.0	.0	.0	.0	.0	.7	1.1	.3	.0	.0	.0	15	.0	2.1
-6	.0	.0	.0	.0	.0	.0	2.5	4.7	1.9	1.1	.6	.0	78	.3	10.6
-7/-8	.0	.0	.0	.0	.0	.0	1.7	5.0	2.5	1.3	.3	.0	84	.0	11.7
-9/-10	.0	.0	.0	.0	.0	.0	3.1	4.3	6.3	2.6	1.9	.1	134	.1	18.5
-11/-13	.0	.0	.0	.0	.0	.0	1.7	3.9	3.5	1.5	.3	.0	85	.1	11.7
-14/-16	.0	.0	.0	.0	.0	.0	2.1	2.1	.3	.0	.0	.0	57	.0	7.9
-17/-19	.0	.0	.4	1.4	2.6	1.1	.4	.1	.0	.0	.0	.0	44	.0	6.1
-20/-22	.0	.0	.7	1.1	2.2	.6	.4	.0	.0	.0	.0	.0	17	.0	2.4
-23/-25	.0	.1	.6	.6	.6	.1	.4	.0	.0	.0	.0	.0	10	.0	1.4
-26/-30	.1	.1	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	3	.0	.4
<-30	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.4
TOTAL	1	2	22	30	81	104	219	144	86	26	2	2	719	4	719
PCT	.1	.3	3.1	4.2	11.3	14.5	30.5	20.0	12.0	3.6	.3	.3	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	1.2	.2	.0	.0	.0	1.7	.0	.6	.0	.0	.0	.0	.6
1-2	.0	1.1	2.5	.0	.0	.0	3.5	.3	.0	2.5	.0	.0	.0	2.8
3-4	.0	.8	2.8	.8	.0	.0	4.4	.0	.8	2.7	1.0	.0	.0	4.5
5-6	.0	.8	1.8	2.4	.3	.0	5.2	.0	.4	1.5	1.1	.0	.0	3.0
7	.0	.0	2.2	1.8	.3	.0	4.3	.0	.0	.4	.8	.0	.0	1.2
8-9	.0	.0	.8	1.0	.3	.0	2.0	.0	.0	.1	.4	.0	.0	.5
10-11	.0	.0	.3	1.6	.0	.0	1.9	.0	.0	.4	1.1	.0	.0	1.5
12	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.3	.3	.0	.6
13-16	.0	.0	.3	.8	.8	.0	2.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.3	.5	.0	.8	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.3	.6	.0	.8
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.9	10.8	9.9	2.2	.0	27.0	.3	1.8	7.6	5.0	.8	.0	15.6

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.3
1-2	.0	1.3	.5	.0	.0	.0	1.8	.0	.6	1.5	.0	.0	.0	2.1
3-4	.0	.3	1.8	.4	.0	.0	2.5	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	.6	.3	.0	.0	.8
7	.0	.3	.6	.3	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.9	3.9	1.0	.0	.0	7.0	.3	.6	2.1	.3	.0	.0	3.3

PERIOD: (OVER-ALL) 1963-1974

JANUARY

AREA 0024 SOYA STRAIT W
49.3N 140.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.0	.1	.0	.0	.0	.0		.1
1-2	.0	.3	.3	.0	.0	.0		.6	.0	.3	.6	.0	.0	.0		.9
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.0	.0	.0		.3
5-6	.0	.0	.0	.3	.0	.0		.3	.0	.0	.7	.3	.0	.0		1.0
7	.0	.0	.0	.2	.0	.0		.2	.0	.0	.3	.1	.0	.0		.4
8-9	.0	.0	.0	.0	.0	.0		.0	.3	.0	.0	.0	.0	.0		.3
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.4	.0	.0	.0		.4
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	.3	.3	.5	.0	.0		1.1	.0	.6	1.9	.8	.0	.0		3.3

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.3	1.2	.3	.0	.0	.0		1.8	.0	1.1	.4	.0	.0	.0		1.5	
1-2	.0	1.4	1.3	.0	.0	.0		2.7	.0	1.2	2.1	.0	.0	.0		3.3	
3-4	.0	.3	2.0	.0	.0	.0		2.3	.0	.0	6.9	.9	.0	.0		7.8	
5-6	.0	.2	1.9	1.0	.0	.0		3.1	.0	.4	3.7	2.3	.0	.0		6.3	
7	.0	.0	1.9	.6	.0	.0		2.5	.0	.0	1.8	1.0	.3	.0		3.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.6	.0	.3	.6	.0	.0		1.5	
10-11	.0	.0	.3	.4	.0	.0		.7	.0	.0	.6	.9	.0	.0		1.5	
12	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.4	.3	.0		.6	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.4	.0		.4	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	3.1	7.7	2.2	.0	.0		13.2	.6	2.7	19.6	6.1	.9	.0		23.8	96.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.8	4.2	.8	.0	.0	.0	9.9	
1-2	.3	6.2	11.3	.0	.0	.0	17.7	
3-4	.0	2.3	16.6	3.1	.0	.0	22.0	
5-6	.0	1.7	10.7	7.6	.3	.0	20.3	
7	.0	.3	7.0	4.8	.6	.0	12.7	
8-9	.6	.3	1.4	2.0	.3	.0	4.3	
10-11	.0	.0	1.7	4.8	.0	.0	6.5	
12	.0	.0	.0	1.4	.6	.0	2.0	
13-16	.0	.0	.3	.8	.8	.0	2.0	
17-19	.0	.0	.0	.3	.8	.0	1.1	
20-22	.0	.0	.0	.8	.6	.0	1.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.6	14.9	49.9	25.6	3.9	.0	100.0	353

PERIOD: (OVER-ALL) 1959-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	8.4	10.2	8.4	5.1	1.4	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	137	4
6-7	.2	.2	3.0	3.7	3.7	1.9	3.5	.7	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	76	7
8-9	.0	.0	.5	1.6	1.6	1.4	.5	1.4	1.4	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	39	9
10-11	.0	1.2	.2	.2	.2	.9	.7	.2	.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	19	8
12-13	.0	.0	.2	.5	.2	.5	.2	.0	.7	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	12	11
>13	.0	.0	.0	.5	.0	.2	.2	.5	.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	9	11
INDEX	4.7	3.0	5.1	5.8	2.8	.7	2.1	1.4	1.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	118	5
TOTAL	24	95	83	89	39	30	41	17	19	5	6	2	0	0	0	0	0	0	0	420	6
PCT	5.6	12.8	19.3	20.7	13.7	7.0	9.5	4.0	4.4	1.2	1.4	.5	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

FEBRUARY

AREA 0024 SOVA STRAIT W
45.7N 140.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	37.8	.7	.5	39.0	3.1	.0	.0	.0	.0	.0	57.9
NE	1.8	.0	.0	.0	32.4	.0	.0	34.2	3.6	.0	.0	.0	.0	.0	62.2
E	.0	.0	.0	.0	24.2	.0	.0	24.2	.0	.0	.0	.0	.0	.0	75.8
SE	.0	.0	.0	.0	23.8	.0	.0	23.8	.0	.0	.0	.0	.0	.0	74.2
S	8.3	.0	.0	.0	33.3	.0	.0	41.7	8.3	.0	.0	.0	.0	.0	50.0
SW	1.7	.0	.0	.0	14.9	.0	.0	16.5	2.5	.0	3.3	.0	.0	3.3	74.4
W	.0	.0	.0	.0	29.7	.0	.0	29.7	.8	.0	.0	.0	.0	.0	69.5
NW	.0	.0	.0	.0	33.7	.0	.1	33.8	1.9	.0	.6	.0	.0	.0	63.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	33.3	.0	.0	33.3	.0	.0	.0	.0	.0	.0	66.7
TOT PCT	.5	.0	.0	.0	32.1	.2	.2	32.9	2.2	.0	.3	.0	.0	.2	64.3
TOT OBS:	589														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	1.2	.0	.0	.0	32.1	.6	.0	33.9	1.2	.0	.0	.0	.0	.6	64.3
0600Z	.0	.0	.0	.0	33.1	.0	.6	33.8	2.6	.0	1.3	.0	.0	.0	62.3
1200Z	.6	.0	.0	.0	31.9	.0	.0	32.5	2.4	.0	.6	.0	.0	.0	64.5
1800Z	.8	.0	.0	.0	31.7	.0	.0	32.5	3.3	.0	.0	.0	.0	.0	64.2
TOT PCT TOT OBS:	.7 611	.0	.0	.0	32.2	.2	.2	33.2	2.3	.0	.5	.0	.0	.2	63.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.3	7.7	10.0	8.6	.5	.0		27.1	17.2		27.1	21.6	36.5	22.4	20.1	26.5	28.6	33.9
NE	.5	3.3	4.1	1.8	.2	.0		9.9	14.3		13.4	13.0	5.7	8.6	6.3	11.7	7.9	9.4
E	.3	2.5	2.9	.6	.5	.0		6.4	14.6		3.2	8.0	2.4	9.2	7.0	5.6	2.9	11.1
SE	.5	2.8	1.3	.8	.2	.0		5.5	11.6		2.1	8.0	3.0	7.2	3.2	9.2	2.9	6.1
S	.0	1.2	1.7	.6	.0	.0		3.5	14.7		3.2	4.9	4.7	2.6	4.9	3.1	2.9	2.2
SW	.0	1.8	2.3	.6	.0	.0		4.6	13.8		5.5	4.3	3.7	3.9	3.5	5.1	6.4	5.0
W	.3	4.2	6.1	3.1	.2	.0		14.0	15.8		11.6	8.6	15.9	25.7	15.5	16.8	2.1	10.0
NW	.2	6.9	13.0	7.8	.6	.0		28.5	17.1		31.8	31.5	28.0	20.4	39.4	21.9	43.6	22.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5							.5	.0		2.1	.0	.0	.0	.0	.0	2.9	.0
TOT OBS	16	189	254	148	13	0	620		15.9		95	81	74	76	71	98	35	90
TOT PCT	2.6	30.5	41.0	23.9	2.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	2.2	11.0	10.6	2.9	.3		27.1	17.2	24.6	29.3	23.8	32.4	
NE	2.1	4.5	2.2	1.1	.0		9.9	14.3	13.2	7.2	9.5	9.0	
E	1.6	2.5	1.7	.3	.3		6.4	14.6	5.4	5.8	6.2	8.8	
SE	2.4	1.6	1.3	.0	.2		5.5	11.6	4.8	5.2	6.7	5.2	
S	.6	1.3	1.3	.3	.0		3.5	14.7	4.0	3.7	3.8	2.4	
SW	.3	3.1	.9	.3	.0		4.6	13.8	5.0	3.8	4.4	5.4	
W	1.8	6.2	4.2	1.8	.0		14.0	15.8	10.2	20.8	16.3	7.8	
NW	2.3	11.0	12.6	2.4	.2		28.5	17.1	31.7	24.2	29.3	28.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.5						.5	.0	1.1	.0	.0	.8	
TOT OBS	86	256	215	57	6	620		15.9	176	150	169	123	
TOT PCT	13.9	41.3	34.7	9.2	1.0		100.0		100.0	100.0	100.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

AREA 0024 SOYA STRAIT W
45.7N 140.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	1.1	1.7	23.9	44.3	26.1	2.8	.0	17.0	100.0	176
0600Z	.0	1.3	26.0	44.0	26.7	2.0	.0	16.3	100.0	150
1201Z	.0	3.0	40.2	35.3	19.5	1.8	.0	14.6	100.0	169
1802Z	.8	2.4	32.0	40.0	23.2	1.6	.0	15.3	100.0	125
TOT	3	13	189	254	148	13	0	15.9		620
PCT	.5	2.1	30.5	41.0	23.9	2.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	2.6	10.6	10.2		6.1
NE	.4	.5	3.6	4.8		6.9
E	.4	.3	.7	2.0		6.3
SE	.7	.4	1.1	1.2		5.3
S	.4	.0	1.1	1.9		6.4
SW	.8	.4	1.6	1.6		5.6
W	4.9	1.3	5.6	2.9		4.4
NW	6.1	4.9	14.9	9.1		5.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.4	.4		7.0
TOT OBS	45	29	111	96	281	5.6
TOT PCT	16.0	10.3	39.5	34.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.8	.0	.6	1.2	3.8	10.7	2.0	.0	.0	.0	5.7	
NE	1.4	.0	.4	.4	.4	4.5	.1	.0	.4	.0	1.6	
E	.7	.0	.0	.0	.0	1.7	.0	.0	.0	.0	1.0	
SE	.4	.0	.0	.0	.0	1.2	.4	.0	.0	.0	1.4	
S	.0	.0	.0	.0	.7	1.5	.4	.0	.0	.0	.7	
SW	.4	.0	.0	.0	1.1	1.0	.1	.0	.0	.0	1.9	
W	.7	.0	.0	.4	.9	5.0	.3	.0	.0	.0	7.6	
NW	1.4	.0	.1	.4	7.7	11.4	1.9	.4	.0	.0	11.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
TOT OBS	19	0	3	7	41	103	14	1	1	0	90	281
TOT PCT	6.8	.0	1.1	2.5	14.6	37.4	5.0	.4	.4	.0	32.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.3	.3	.3	.3	.3	.3	.3	.3
>5000	.7	.7	.7	1.0	1.0	1.0	1.0	1.0
>3500	4.2	4.5	4.9	5.2	5.6	5.6	5.6	5.6
>2000	18.1	26.6	31.3	37.5	39.9	40.6	42.4	42.4
>1000	22.6	34.7	43.1	51.4	54.5	55.6	57.6	57.6
>600	23.6	36.1	45.1	53.5	56.9	58.0	60.1	60.1
>300	23.6	36.1	45.8	54.2	57.6	58.7	61.1	61.1
>150	23.6	36.1	45.8	54.2	57.6	58.7	61.1	61.1
>0	24.0	36.5	46.2	57.3	62.2	63.2	68.1	68.1
TOTAL	69	105	133	165	179	182	196	196

TOTAL NUMBER OF OBS: 288

PCT FREQ NH <5/8: 31.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.9	1.3	6.8	4.5	6.1	5.1	16.4	13.8	27.3	6.8	311

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1938-1974

FEBRUARY

AREA 0024 SOVA STRAIT W
45.7N 140.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.1	.4	.5	.0	.0	.0	.9	2.0	.0	.0	4.9	
	NO PCP	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	TOT %	1.1	.4	.5	.0	.0	.2	.9	2.0	.0	.0	5.0	
1/2<1	PCP	1.3	.5	.5	.5	.0	.1	1.7	1.4	.0	.2	6.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.3	.5	.5	.5	.0	.1	1.7	1.4	.0	.2	6.2	
1<2	PCP	1.7	1.3	.6	.5	.7	.0	.2	2.4	.0	.0	7.2	
	NO PCP	.2	.2	.0	.0	.1	.0	.0	.0	.0	.0	.5	
	TOT %	1.8	1.4	.6	.5	.8	.0	.2	2.4	.0	.0	7.7	
2<5	PCP	2.9	.6	.2	.0	.3	.4	.9	2.0	.0	.0	7.2	
	NO PCP	.8	.0	.0	.0	.1	.0	1.4	.0	.0	.0	2.4	
	TOT %	3.6	.6	.2	.0	.5	.5	2.4	.0	.0	.0	9.6	
5<10	PCP	2.4	.4	.0	.0	.3	.3	.6	1.8	.0	.0	5.7	
	NO PCP	5.3	1.8	1.5	.6	.3	1.4	1.9	4.2	.0	.0	17.0	
	TOT %	7.7	2.3	1.5	.6	.5	1.6	2.5	6.0	.0	.0	22.7	
10+	PCP	1.0	.0	.0	.0	.0	.1	.4	.8	.0	.0	2.4	
	NO PCP	9.9	4.1	3.5	2.3	1.3	2.6	9.2	13.5	.0	.3	46.4	
	TOT %	10.9	4.1	3.5	2.3	1.3	2.7	9.7	14.4	.0	.3	48.7	
TOT OBS													595
TOT PCT		26.1	9.4	6.7	3.9	3.0	5.1	15.8	29.5	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.1	.3	.0	.0	.0	.1	.1	.0	.0	.7	
	11-21	.4	.0	.0	.0	.0	.2	.1	.4	.0	.0	1.1	
	22+	.2	.5	.3	.0	.0	.0	.8	1.4	.0	.0	3.3	
	TOT %	.9	.6	.7	.0	.0	.2	1.0	1.9	.0	.0	5.2	
1/2<1	0-3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.2	.5	
	4-10	.3	.2	.2	.3	.0	.0	.2	.0	.0	.0	1.1	
	11-21	.4	.3	.2	.0	.0	.1	.7	.8	.0	.0	2.5	
	22+	.7	.0	.1	.2	.0	.0	.8	.8	.0	.0	2.6	
	TOT %	1.4	.5	.5	.8	.0	.1	1.7	1.6	.0	.2	6.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.7	.2	.2	.2	.0	.2	.2	.3	.0	.0	2.0	
	11-21	1.1	.7	.1	.2	.7	.0	.2	1.6	.0	.0	4.4	
	22+	1.0	.0	.3	.2	.2	.0	.0	.8	.0	.0	2.6	
	TOT %	2.7	1.0	.6	.6	.9	.2	.4	2.7	.0	.0	9.0	
2<5	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	2.2	.4	.2	1.1	.5	.2	.4	1.0	.0	.0	5.9	
	11-21	1.4	.9	.2	.6	.2	.4	.9	1.8	.0	.0	6.4	
	22+	1.6	.6	.0	.0	.2	.2	.4	2.0	.0	.0	4.9	
	TOT %	5.2	1.9	.4	1.6	.9	.8	1.7	4.8	.0	.0	17.3	
5<10	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	1.6	1.0	.6	.4	.2	.3	.3	1.6	.0	.0	6.1	
	11-21	2.9	.7	.0	.2	.6	1.6	2.2	.0	.0	.0	9.0	
	22+	2.7	.4	.2	.2	.0	.2	.2	1.5	.0	.0	5.2	
	TOT %	7.2	2.2	1.5	.6	.5	1.1	2.1	5.3	.0	.0	20.5	
10+	0-3	.1	.2	.3	.2	.0	.0	.3	.2	.0	.3	1.6	
	4-10	3.0	1.6	1.1	.9	.5	1.1	3.1	3.9	.0	.0	15.2	
	11-21	3.6	1.4	1.3	.5	.5	.9	2.7	6.3	.0	.0	17.2	
	22+	2.8	.4	.2	.4	.1	.2	1.1	2.0	.0	.0	7.2	
	TOT %	9.5	3.6	2.9	1.9	1.1	2.3	7.2	12.4	.0	.3	41.2	
TOT OBS													611
TOT PCT		26.9	9.8	6.5	5.5	3.3	4.7	14.0	28.8	.0	.5	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

FEBRUARY

AREA 0024 SOYA STRAIT W
45.7N 140.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	6.7	.0	1.0	2.9	17.3	42.3	4.8	.0	1.0	.0	76.0	24.0	104
06009	5.7	.0	.0	2.3	16.1	40.2	4.6	.0	.0	.0	69.0	31.0	87
12015	10.1	.0	2.9	1.4	11.6	24.6	2.9	2.9	.0	.0	56.5	43.5	69
18021	8.6	.0	.0	2.9	11.4	31.4	8.6	.0	.0	.0	62.9	37.1	35
TOT	22	0	3	7	44	107	14	2	1	0	200	95	295
PCT	7.5	.0	1.0	2.4	14.9	36.3	4.7	.7	.3	.0	67.8	32.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	7.8	4.2	7.3	16.7	20.8	43.2	192
06009	5.2	6.4	11.6	14.5	16.9	45.3	172
12015	3.2	9.0	11.2	17.0	17.0	42.6	188
18021	2.9	5.1	8.7	16.7	25.4	41.3	138
TOT	34	43	67	112	136	298	690
PCT	4.9	6.2	9.7	16.2	19.7	43.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	5.9	14.7	34.3	43.1	22.5	102
06009	5.7	10.3	34.5	34.5	31.0	87
12015	10.6	24.2	34.8	22.7	42.4	66
18021	6.1	6.1	36.4	33.3	30.3	33
TOT	20	42	100	100	88	288
PCT	6.9	14.6	34.7	34.7	30.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.0	.0	.0	2.0	.0	.0	1	2.0
30/34	.0	.0	.0	.0	2.0	.0	.0	.0	1	2.0
25/29	.0	.0	2.0	2.0	2.0	7.8	3.9	7.8	13	25.5
20/24	.0	.0	.0	.0	3.9	2.0	9.8	15.7	16	31.4
15/19	.0	.0	.0	2.0	2.0	5.9	15.7	9.8	18	35.3
10/14	.0	.0	.0	.0	.0	2.0	2.0	.0	2	3.9
TOTAL	0	0	1	2	5	10	16	17	51	100.0
PCT	.0	.0	2.0	3.9	9.8	19.6	31.4	33.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
35/39	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0
30/34	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0
25/29	2.9	.5	2.0	3.9	3.9	3.9	3.4	4.9	.0	.0
20/24	11.3	2.5	2.0	3.9	2.0	.5	3.4	5.9	.0	.0
15/19	7.4	2.0	.0	2.0	.0	.0	1.5	22.5	.0	.0
10/14	2.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0
TOTAL	23.5	4.9	3.9	9.8	5.9	8.3	8.3	35.3	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	44	43	36	27	14	6	5	25.6	190
06009	45	43	37	27	14	7	5	25.8	172
12015	45	42	36	27	14	12	9	26.0	187
18021	43	42	36	23	10	5	5	23.9	139
TOT	45	43	36	26	14	6	5	25.4	688

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	6.7	26.7	20.0	46.7	85	15	15
06009	.0	.0	30.8	.0	38.5	30.8	82	13	13	13
12015	.0	18.8	.0	31.3	31.3	18.8	78	16	16	16
18021	.0	.0	9.1	9.1	54.5	27.3	85	11	11	11
TOT	0	3	6	10	19	17	82	55	55	55

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

FEBRUARY

TABLE 17

AREA 0024 SOYA STRAIT W
45.7N 140.9E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	NO FOG
5	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.2	3	.2	.4
4	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.0	2	.0	.4
3	.0	.0	.0	.0	.0	.0	.2	.8	.6	.4	.0	10	.0	1.9
2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	2	.0	.4
1	.0	.0	.0	.0	.0	.6	2.1	1.3	.0	.2	.0	22	.0	4.1
0	.0	.0	.0	.0	.0	.4	.4	.0	.2	.0	.0	5	.0	.9
-1	.0	.0	.0	.0	.0	2.3	1.5	1.5	.9	.2	.0	34	.0	6.4
-2	.0	.0	.0	.0	.0	.6	.6	.4	.2	.0	.0	9	.0	1.7
-3	.0	.0	.0	.0	.0	3.4	1.5	2.1	.4	.0	.0	39	.2	7.2
-4	.0	.0	.0	.0	.9	3.0	2.6	1.3	.2	.0	.0	43	.0	8.1
-5	.0	.0	.0	.0	.2	.4	.6	.0	.2	.0	.0	7	.2	1.1
-6	.0	.0	.0	.0	3.4	3.0	3.4	.8	.4	.0	.0	58	.0	10.9
-7/-8	.0	.0	.0	.9	3.0	4.0	1.9	.4	.0	.0	.0	54	.0	10.2
-9/-10	.0	.0	.0	.0	4.0	1.3	.6	.0	.0	.0	.0	77	.0	14.5
-11/-13	.0	.2	.9	4.1	3.6	3.6	1.1	.0	.0	.0	.0	72	.0	13.6
-14/-16	.0	.0	1.5	1.9	1.7	1.3	.0	.0	.0	.0	.0	34	.0	6.4
-17/-19	.0	.6	.8	.9	.9	.2	.0	.0	.0	.0	.0	18	.0	3.4
-20/-22	.6	.9	1.1	1.1	1.5	.0	.0	.0	.0	.0	.0	28	.0	5.3
-23/-25	.6	.9	.2	.2	.2	.0	.0	.0	.0	.0	.0	11	.0	2.1
-26/-30	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.6
<-30														
TOTAL	8	14	27	66	109	141	92	49	17	7	1	531	3	528
PCT	1.5	2.6	5.1	12.4	20.5	26.6	17.3	9.2	3.2	1.3	.2	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.8	.0	.0	.0	2.5	.0	.6	.1	.0	.0	.0	.7
1-2	.0	.8	2.2	.0	.0	.0	3.1	.0	.5	.9	.0	.0	.0	1.4
3-4	.0	.4	2.6	2.0	.0	.0	4.9	.0	.5	1.5	1.5	.0	.0	3.5
5-6	.5	.9	2.7	.9	.0	.0	5.0	.0	.0	.9	.1	.0	.0	1.1
7	.0	.0	1.3	1.4	.0	.0	2.7	.0	.0	.5	.5	.0	.0	.9
8-9	.0	.0	2.8	1.3	.0	.0	4.1	.0	.0	.5	.6	.0	.0	1.1
10-11	.0	.0	.0	3.1	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.9	.9	.0	1.9	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.8	12.4	10.4	.9	.0	28.1	.0	1.5	4.5	2.8	.0	.0	8.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
3-4	.0	.0	.9	.5	.0	.0	1.4	.0	.0	.6	.9	.0	.0	1.5
5-6	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.9	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	.0	.9	1.3	.0	.0	2.7	.0	.0	1.1	1.9	.0	.0	2.9

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY

AREA 0024 SOYA STRAIT W
45.7N 140.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9
1-2	.0	.4	.5	.0	.0	.0	.8	.0	.6	.1	.0	.0	.0	.7
3-4	.0	.0	.8	.0	.0	.0	.8	.0	.6	1.4	.0	.0	.0	2.0
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.0	.5	.1	.0	.0	.6
7	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	2.2	1.3	.0	.0	3.9	.0	2.1	2.5	.2	.0	.0	4.8

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.9	.0	.0	.0	.0	.9	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.8	1.6	.0	.0	.0	2.5	.0	1.6	2.6	.0	.0	.0	4.2
3-4	.4	.8	1.5	.5	.0	.0	3.2	.1	1.1	8.9	3.1	.0	.0	13.1
5-6	.0	.0	2.1	.7	.5	.0	3.3	.0	.0	5.0	3.4	.5	.0	8.9
7	.0	.0	.7	.5	.0	.0	1.2	.0	.0	1.3	1.9	.5	.0	3.6
8-9	.0	.0	.5	.5	.0	.0	.9	.0	.0	.9	2.3	.0	.0	3.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	1.6
12	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.6	6.9	2.1	.5	.0	12.4	.1	2.8	18.8	12.3	1.4	.0	35.4 99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.4	4.2	.9	.0	.0	.0	6.6	
1-2	.0	4.7	8.5	.0	.0	.0	13.1	
3-4	.5	3.3	18.3	8.5	.0	.0	30.5	
5-6	.5	.9	11.7	7.0	.9	.0	21.1	
7	.0	.0	3.8	4.7	.5	.0	8.9	
8-9	.0	.0	5.2	5.2	.0	.0	10.3	
10-11	.0	.0	.0	5.2	.0	.0	5.2	
12	.0	.0	.9	.9	.0	.0	1.9	
13-16	.0	.0	.0	.9	1.4	.0	2.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.3	13.1	49.3	32.4	2.8	.0	100.0	213

PERIOD: (OVER-ALL) 1950-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	6.2	13.5	9.5	3.3	2.9	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	4
6-7	.0	.4	2.5	4.0	2.2	2.9	2.2	1.1	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	7
8-9	.0	.0	2.2	1.5	1.8	1.1	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	6
10-11	.0	.7	.7	.4	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDEX	.7	3.6	12.7	8.0	4.4	2.9	1.1	1.1	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99	5
TOTAL	3	30	87	65	93	29	13	9	5	1	0	0	0	0	0	0	0	0	0	275	5
PCT	1.1	10.9	31.6	23.6	12.0	10.5	4.7	3.3	1.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1933-1974

MARCH

AREA 0024 SOYA STRAIT W
45.6N 140.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.7	.0	.0	.0	16.8	.0	.0	17.5	1.9	.0	2.6	.0	.7	.0	77.2
NE	2.1	.0	.0	.0	22.5	.0	.0	24.6	5.3	.0	1.1	.0	.2	.0	68.8
E	2.9	.0	.0	.0	17.6	.0	.0	20.6	3.5	.0	2.4	.0	.9	.0	72.6
SE	5.0	.0	5.0	.0	22.4	.0	.0	32.4	3.3	.0	3.3	.0	.0	1.7	59.3
S	5.7	.0	1.5	.0	11.8	.0	.0	16.0	7.2	.0	.0	.0	1.5	.0	75.3
SW	2.7	.0	.0	.0	7.7	.0	.0	10.1	3.5	.0	1.3	.0	.0	1.1	84.0
W	.6	.0	.0	.0	9.3	.0	.0	9.3	1.4	.0	.6	.0	.0	.0	88.8
NW	.0	.0	.0	.0	15.4	.0	.0	15.4	1.3	.0	.6	.0	.0	.0	82.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	5.9	.0	.0	5.9	.0	.0	.0	.0	.0	.0	94.1
TOT PCT	1.8	.0	.4	.0	14.9	.0	.0	16.8	2.9	.0	1.3	.0	.3	.2	78.4
TOT OBS:	897														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	1.5	.0	.4	.0	16.5	.0	.4	18.4	2.6	.0	1.5	.0	.0	.0	77.6
0600	2.2	.0	.9	.0	18.3	.0	.0	21.0	3.9	.0	1.7	.0	.9	.4	72.1
1200	1.9	.0	.4	.0	11.6	.0	.0	13.4	4.1	.0	1.5	.0	.0	.4	80.6
1800	1.3	.0	.0	.0	13.2	.0	.0	14.5	.6	.0	.0	.0	.6	.0	84.3
TOT PCT TOT OBS:	1.7 928	.0	.4	.0	15.0	.0	.1	16.9	3.0	.0	1.3	.0	.3	.2	78.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.6	5.9	7.6	2.0	.1	.0		16.3	13.4	17.3	17.1	18.7	18.3	17.6	12.4	9.6	15.7	
NE	.1	3.4	7.9	2.5	.3	.0		14.1	16.3	15.3	16.1	13.4	8.1	17.0	12.9	14.2	14.2	
E	.4	4.3	3.7	1.6	.4	.0		10.3	14.7	15.7	7.9	8.1	12.2	6.5	10.5	9.2	11.6	
SE	.4	3.1	2.4	1.1	.1	.0		7.0	13.1	10.7	4.7	5.1	5.0	8.2	5.2	8.3	7.8	
S	.2	3.2	2.6	.4	.4	.0		6.8	12.5	9.9	7.4	8.7	6.1	6.5	1.9	3.3	7.8	
SW	.0	4.2	4.2	1.7	.0	.0		10.1	13.7	3.2	8.4	13.2	13.3	13.2	11.9	10.4	8.8	
W	.2	4.4	6.3	2.0	.1	.0		13.0	14.3	8.1	14.2	14.6	14.4	10.7	19.5	10.4	13.2	
NW	.1	6.9	9.9	1.9	.1	.0		18.8	13.7	16.0	23.2	16.5	21.4	11.3	24.8	24.6	19.6	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.5							3.5	.0	4.2	1.1	1.6	1.1	9.2	1.0	10.0	1.0	
TOT OBS	47	300	377	111	13	0	848		13.6	142	95	123	90	121	105	60	102	
TOT PCT	5.5	35.4	44.5	13.1	1.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	06	12	18	21
N	4.2	7.2	3.7	1.2	.0		16.3	13.4	17.2	18.5	15.3	13.4	
NE	1.7	5.0	6.1	1.2	.1		14.1	16.3	15.6	11.2	15.1	14.2	
E	1.6	5.1	2.7	.7	.2		10.3	14.7	12.6	9.9	8.3	10.8	
SE	1.7	3.2	1.8	.3	.0		7.0	13.1	8.3	5.0	6.9	8.0	
S	1.8	3.4	1.1	.3	.1		6.8	12.5	8.6	7.6	4.4	6.2	
SW	1.8	5.0	2.7	.6	.0		10.1	13.7	5.3	13.3	12.6	9.4	
W	1.8	6.0	4.7	.4	.1		13.0	14.3	10.5	14.6	14.6	12.2	
NW	2.1	10.7	5.3	.8	.0		18.8	13.7	18.9	18.5	17.3	21.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.5						3.5	.0	3.0	1.4	5.5	4.3	
TOT OBS	172	388	237	46	5	848		13.6	237	213	236	162	
TOT PCT	20.3	45.8	27.9	5.4	.6		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1939-1974

MARCH

AREA 0024 SOVA STRAIT W
45.6N 140.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	3.0	3.0	35.0	45.0	11.0	2.5	.0	13.9	100.0	237
06009	1.4	1.4	32.4	49.8	14.1	.9	.0	14.0	100.0	213
12015	5.5	2.5	35.6	39.8	15.3	1.3	.0	13.4	100.0	236
18021	4.3	.6	39.5	42.6	11.7	1.2	.0	12.9	100.0	162
TOT	30	17	300	377	111	13	0	13.6		848
PCT	3.5	2.0	35.4	44.5	13.1	1.5	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.8	2.4	6.2	5.5		5.4
NE	1.7	1.5	4.8	6.4		6.0
E	1.0	1.1	3.5	5.1		6.1
SE	.7	.2	2.0	4.2		6.8
S	1.4	.9	2.9	3.1		5.7
SW	3.1	1.9	3.2	1.8		4.4
W	4.4	2.5	3.4	1.4		3.6
NW	6.5	1.1	6.2	1.7		3.7
VAR	.0	.0	.0	.0		.0
CALM	3.2	.8	1.4	.2		2.6
TOT OBS	123	61	166	149	495	4.9
TOT PCT	24.8	12.3	33.5	29.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.2	.2	.0	.7	3.2	5.5	1.0	.0	.0	.4	5.9	
.8	.0	.0	.3	2.9	4.0	1.7	.2	.4	.2	3.9	
.6	.2	.8	1.8	2.9	1.2	.0	.0	.0	.2	2.8	
.7	.0	.0	.2	1.9	2.7	.2	.1	.2	.2	1.0	
1.1	.0	.2	.4	.4	2.2	.6	.3	.4	.0	2.7	
.7	.2	.0	.6	.2	2.0	.5	.1	.1	.2	5.6	
.2	.0	.0	.0	1.6	1.1	.7	.2	.0	.4	7.5	
.5	.0	.0	.3	2.1	2.7	1.1	.0	.0	.4	8.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.2	.0	.2	.2	.4	.2	.0	.0	.2	4.2	
23	4	2	17	70	116	35	4	5	11	208	495
4.6	.8	.4	3.4	14.1	23.4	7.1	.8	1.0	2.2	42.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	< OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.8	2.7	3.1	3.1	3.1	3.1	3.1	3.1
= OR >5000	2.5	3.7	4.1	4.1	4.1	4.1	4.1	4.1
= OR >3500	7.6	9.6	10.5	10.9	11.1	11.1	11.1	11.1
= OR >2000	18.1	25.9	30.8	32.4	33.3	33.3	34.1	34.1
= OR >1000	24.4	35.3	42.7	45.4	47.0	47.2	48.3	48.3
= OR >600	25.5	37.2	45.2	48.0	50.1	50.5	51.7	51.7
= OR >300	25.5	37.8	45.8	48.7	50.9	51.3	52.4	52.4
= OR >150	26.1	38.6	46.6	49.5	51.7	52.0	53.2	53.2
= OR >0	26.3	39.6	48.5	52.0	55.6	56.1	57.7	57.7
TOTAL	135	203	249	267	285	288	296	296

TOTAL NUMBER OF OBS: 513

PCT FREQ NM <5/8: 42.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.9	5.1	7.2	7.0	4.2	7.8	13.0	10.3	24.5	3.6	554

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1939-1974

MARCH

AREA 0024 SOVA STRAIT W
45.0N 140.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.5	.4	.4	.2	.1	.0	.6	.0	.0	2.3	
	NO PCP	.3	.1	.1	.0	.1	.2	.0	.0	.0	.0	.8	
	TOT %	.4	.6	.5	.4	.3	.3	.0	.6	.0	.0	3.1	
1/2<1	PCP	.3	.7	.2	.2	.1	.4	.3	.5	.0	.1	2.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.7	.2	.2	.1	.4	.3	.5	.0	.1	2.8	
1<2	PCP	.7	.7	.3	.6	.2	.7	.3	.7	.0	.0	3.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.7	.7	.3	.6	.2	.7	.3	.7	.0	.0	3.7	
2<5	PCP	.7	.8	.8	.6	.3	.3	.6	.7	.0	.1	4.9	
	NO PCP	.7	.9	.4	.1	.3	.7	.4	.4	.0	.1	4.0	
	TOT %	1.4	1.7	1.2	.7	.7	.9	1.1	1.1	.0	.2	8.9	
5<10	PCP	.8	.6	.3	.3	.2	.1	.2	.3	.0	.0	2.8	
	NO PCP	2.9	2.9	1.1	1.6	1.3	2.3	2.3	1.9	.0	.7	17.0	
	TOT %	3.8	3.4	1.3	1.9	1.5	2.4	2.4	2.2	.0	.7	19.8	
10+	PCP	.2	.0	.0	.1	.2	.1	.0	.2	.0	.0	.8	
	NO PCP	9.2	6.2	5.9	2.8	4.3	6.1	10.3	13.4	.0	2.8	61.0	
	TOT %	9.4	6.2	5.9	2.9	4.4	6.2	10.3	13.6	.0	2.8	61.7	
TOT OBS													899
TOT PCT		16.0	13.2	9.5	6.8	7.2	10.5	14.3	18.7	.0	3.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.1	.2	.1	.1	.1	.2	.0	.0	1.1	
	11-21	.6	.4	.2	.1	.0	.1	.0	.7	.0	.0	2.0	
	22+	.2	.2	.4	.0	.0	.1	.0	.0	.0	.0	1.0	
	TOT %	1.1	.5	.6	.4	.1	.4	.1	.9	.0	.0	4.0	
1/2<1	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.1	.4	
	4-10	.2	.0	.0	.0	.1	.2	.2	.1	.0	.0	.8	
	11-21	.2	.6	.2	.1	.0	.2	.0	.4	.0	.0	1.7	
	22+	.0	.2	.1	.0	.0	.1	.1	.1	.0	.0	.7	
	TOT %	.5	.8	.3	.3	.1	.6	.3	.5	.0	.1	3.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.2	.3	.2	.0	.1	.0	.2	.0	.0	1.3	
	11-21	.4	.5	.2	.4	.0	.0	.4	.4	.0	.0	2.4	
	22+	.1	.4	.4	.1	.2	.0	.1	.2	.0	.0	1.5	
	TOT %	.7	1.1	.9	.7	.2	.2	.5	.9	.0	.0	5.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.4	
	4-10	.6	.5	.6	.4	.2	.4	.3	.9	.0	.0	3.9	
	11-21	.9	.7	.2	.2	.3	.5	.5	.5	.0	.0	3.8	
	22+	.3	.6	.6	.3	.2	.2	.1	.3	.0	.0	2.6	
	TOT %	1.8	1.7	1.4	.9	.7	1.2	1.0	1.6	.0	.2	10.7	
5<10	0-3	.2	.0	.1	.1	.0	.0	.0	.0	.0	.6	1.1	
	4-10	1.3	.7	.4	.7	.6	.6	.9	.7	.0	.0	5.8	
	11-21	1.4	2.0	.4	.5	.7	1.3	.8	1.0	.0	.0	8.1	
	22+	.7	.7	.4	.5	.2	.4	.7	.3	.0	.0	3.8	
	TOT %	3.6	3.4	1.3	1.8	1.5	2.3	2.4	2.0	.0	.6	18.8	
10+	0-3	.4	.1	.2	.0	.2	.0	.1	.1	.0	2.6	3.8	
	4-10	3.5	1.9	2.9	1.5	2.1	2.6	2.9	4.8	.0	.0	22.3	
	11-21	4.1	3.6	2.6	1.1	1.6	2.0	4.6	7.1	.0	.0	26.7	
	22+	.8	.6	.1	.3	.1	.8	1.2	1.0	.0	.0	4.9	
	TOT %	8.8	6.2	5.8	2.9	4.0	5.5	8.0	13.0	.0	2.6	57.6	
TOT OBS													840
TOT PCT		16.4	13.9	10.4	7.0	6.6	10.1	13.1	19.0	.0	3.6	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1933-1974

MARCH

AREA 0024 SOYA STRAIT W
45.6N 140.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	180 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.7	1.2	.6	4.7	19.8	29.1	9.9	.6	.6	1.7	69.8	30.2	172
06009	6.9	1.4	.7	4.2	16.7	23.6	7.6	.7	.7	2.1	64.6	35.4	144
12015	3.3	.0	1.3	2.0	8.0	18.0	2.7	2.0	2.0	2.0	41.3	58.7	190
18021	8.5	.0	.0	1.7	6.8	13.6	6.8	.0	.0	3.4	40.7	59.3	59
TOT	23	4	4	18	74	119	36	5	5	11	299	226	525
PCT	4.4	.8	.8	3.4	14.1	22.7	6.9	1.0	1.0	2.1	57.0	43.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.8	4.6	4.9	9.3	19.6	59.4	281
06009	7.2	4.4	3.6	12.0	14.1	58.6	249
12015	3.1	2.1	3.1	12.9	20.6	58.2	287
18021	3.3	2.8	8.9	12.2	21.1	52.2	180
TOT	41	35	49	115	187	574	997
PCT	4.1	3.5	4.5	11.5	18.8	57.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.8	9.4	25.3	44.7	30.0	170
06009	7.0	14.1	28.9	37.3	33.8	142
12015	3.5	6.3	17.5	28.0	54.5	143
18021	8.6	10.3	25.9	20.7	53.4	58
TOT	23	91	124	181	208	513
PCT	4.5	9.9	24.2	35.3	40.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
33/39	.0	.0	.0	1.1	2.2	4.4	1.1	.0	8	8.9
30/34	.0	.0	.0	3.3	10.0	5.6	16.7	7.8	39	43.3
25/29	.0	.0	.0	2.2	7.8	5.6	7.8	8.9	29	32.2
20/24	.0	.0	.0	.0	3.3	3.3	.0	3.3	9	10.0
15/19	.0	.0	.0	.0	2.2	2.2	1.1	.0	5	5.6
TOTAL	0	0	0	6	23	19	24	18	90	100.0
PCT	.0	.0	.0	6.7	25.6	21.1	26.7	20.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.1	.0	.0	.0	3.3	2.2	2.2	.0	.0	.0
5.3	10.0	5.0	6.1	.8	4.7	4.4	6.1	.0	.0
2.8	5.3	6.1	3.3	.0	2.2	3.3	6.9	.0	2.2
3.3	1.1	.0	.0	.0	2.2	1.1	2.2	.0	.0
.8	3.6	.0	.0	.0	.0	.0	1.1	.0	.0
13.3	20.8	11.1	9.4	4.2	11.4	11.1	16.4	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	46	45	41	32	23	12	10	31.6	276
06009	44	43	41	32	21	16	15	31.5	244
12015	46	43	41	32	20	14	10	31.1	283
18021	47	46	41	30	21	12	9	30.8	177
TOT	47	44	41	32	21	14	9	31.3	980

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	8.3	33.3	8.3	33.3	16.7	77	24
06009	.0	6.7	20.0	30.0	23.3	20.0	77	30
12015	.0	5.0	25.0	20.0	25.0	25.0	78	20
18021	.0	5.9	23.5	23.5	23.5	23.5	78	17
TOT	0	6	23	19	24	19	77	91

MARCH

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1933-1974

TABLE 17

AREA 0024 SOYA STRAIT W
45.6N 140.8EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	3	.0	.4
7/8	.0	.0	.0	.0	.0	.0	.0	.4	.5	.0	7	.0	.9
6	.0	.0	.0	.0	.0	.0	.1	.1	.4	.0	5	.0	.6
5	.0	.0	.0	.0	.0	.0	.7	.5	.5	.1	15	.0	1.9
4	.0	.0	.0	.0	.0	.2	.7	.5	.7	.1	19	.0	2.4
3	.0	.0	.0	.0	.0	.0	.5	.4	.1	.0	8	.0	1.0
2	.0	.0	.0	.0	.0	2.0	2.0	1.4	.9	.2	52	.0	6.5
1	.0	.0	.0	.0	.0	.6	.6	.9	.0	.0	17	.1	2.0
0	.0	.0	.0	.0	.1	3.0	2.5	1.9	1.0	.0	68	.1	8.3
-1	.0	.0	.0	.0	.0	1.2	1.1	.7	.1	.0	26	.0	3.2
-2	.0	.0	.0	.0	1.1	2.5	3.2	2.1	.1	.2	75	.2	9.1
-3	.0	.0	.0	.0	.4	1.9	1.1	.4	.1	.0	31	.0	3.9
-4	.0	.0	.0	.0	3.1	4.7	3.2	.9	.1	.0	97	.1	12.0
-5	.0	.0	.0	.0	2	3.4	4.0	1.7	.9	.0	82	.0	10.2
-6	.0	.0	.0	.0	.6	1.5	.4	.1	.0	.0	21	.1	2.5
-7/-8	.0	.0	.0	1.5	5.4	4.4	1.4	.2	.1	.0	104	.2	12.7
-9/-10	.0	.0	.5	.5	3.4	2.0	.2	.4	.0	.0	56	.0	7.0
-11/-13	.0	.1	1.0	.9	4.0	.9	.4	.0	.0	.0	58	.1	7.1
-14/-16	.0	.1	.4	1.6	1.4	.2	.1	.2	.0	.0	33	.0	4.1
-17/-19	.6	.2	.1	.1	.4	.1	.0	.0	.0	.0	13	.0	1.6
-20/-22	.4	.1	.1	.0	.1	.4	.0	.0	.0	.0	9	.1	1.0
-23/-25	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	4	.0	.5
TOTAL	8	5	17	42	188	238	162	96	39	8	803	1.2	79.3
PCT	1.0	.6	2.1	5.2	23.4	29.6	20.2	12.0	4.9	1.0	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.9	.0	.0	.0	.0	2.0	.3	.6	.0	.0	.0	.0	.9
1-2	.3	2.2	2.1	.0	.0	.0	4.6	.0	.7	2.9	.0	.0	.0	3.6
3-4	.0	1.5	5.0	.3	.0	.0	4.7	.0	.4	2.8	.8	.0	.0	4.0
5-6	.0	.3	1.6	.5	.0	.0	2.4	.0	.0	2.3	.5	.0	.0	2.9
7	.0	.0	1.5	.7	.0	.0	2.2	.0	.0	.9	1.1	.0	.0	2.1
8-9	.0	.0	1.1	.0	.2	.0	1.3	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.3	.3	.0	.0	.5	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.3	.0	.0	.5	.0	.0	.3	.3	.1	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.5
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.4	9.7	2.3	.2	.0	18.3	.3	1.7	9.5	3.5	.6	.0	15.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.0	.0	.0	.0	1.7	.3	1.7	.0	.0	.0	.0	2.3
1-2	.0	1.5	1.2	.0	.0	.0	2.7	.0	.3	.1	.0	.0	.0	.3
3-4	.3	.3	1.8	.0	.0	.0	2.3	.0	.3	1.1	.0	.0	.0	1.5
5-6	.0	.3	2.1	.0	.0	.0	2.3	.0	.0	.8	.6	.0	.0	1.4
7	.0	.0	.3	.2	.0	.0	.5	.0	.3	.5	.1	.0	.0	.9
8-9	.0	.0	.0	.2	.3	.0	.5	.0	.3	.3	.3	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.7	5.3	.7	.5	.0	10.4	.5	2.9	2.8	1.5	.0	.0	7.7

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0024 SOYA STRAIT W
45.6N 140.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.3	.7	.0	.0	.0	2.3	.0	1.1	.3	.0	.0	.0	1.5
1-2	.0	1.5	.7	.0	.0	.0	2.1	.0	1.3	1.5	.0	.0	.0	2.8
3-4	.0	.2	1.6	.0	.0	.0	1.8	.0	.0	1.9	.5	.0	.0	2.4
5-6	.0	.0	1.0	.2	.0	.0	1.2	.0	.3	.7	.3	.0	.0	1.2
7	.0	.0	.2	.5	.0	.0	.7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.3	.0	.3	.0	.5	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.5	.1	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.3	.0	.1	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.9	4.4	.7	.5	.0	8.8	.0	3.5	5.0	1.2	.0	.0	9.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.7	.3	.0	.0	.0	1.0	.1	2.0	.3	.0	.0	.0	2.3	
1-2	.0	.9	1.5	.0	.0	.0	2.5	.0	1.7	2.1	.0	.0	.0	3.7	
3-4	.0	.5	1.2	.0	.0	.0	1.7	.0	.5	2.9	.0	.0	.0	3.4	
5-6	.0	.3	1.7	.3	.0	.0	2.3	.0	.5	2.1	1.3	.0	.0	3.9	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.1	.0	.0	1.1	
8-9	.0	.0	.0	.2	.3	.0	.5	.0	.0	.0	.3	.1	.0	.3	
10-11	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.5	5.2	.9	.3	.0	8.8	.1	4.7	6.3	1.8	.1	.0	14.9	94.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.2	10.6	1.6	.0	.0	.0	19.4	
1-2	.3	10.1	11.9	.0	.0	.0	22.3	
3-4	.5	3.7	16.2	1.6	.0	.0	22.0	
5-6	.0	1.6	12.2	3.7	.0	.0	17.5	
7	.0	.3	5.0	2.7	.0	.0	8.0	
8-9	.0	.3	1.6	1.6	1.1	.0	4.5	
10-11	.0	.5	1.1	.5	.0	.0	2.1	
12	.0	.0	.0	.5	.0	.0	.5	
13-16	.0	.3	.5	1.3	.5	.0	2.7	
17-19	.0	.0	.0	.5	.3	.0	.8	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.0	27.3	50.1	12.5	2.1	.0	100.0	377

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	9.3	11.7	8.3	3.0	1.1	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	162	4
6-7	.0	3.9	3.0	3.0	5.2	2.0	1.3	.0	.4	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	92	6
8-9	.0	.2	1.3	.9	1.5	1.1	1.5	.4	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	8
10-11	.0	.4	.0	.2	.7	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
12-13	.0	.0	.7	.2	.4	.2	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
>13	.0	.0	.0	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
INDET	8.9	6.7	5.4	4.8	2.6	1.1	.4	.2	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	142	3
TOTAL	46	95	102	84	84	27	18	5	12	5	2	0	0	0	0	0	0	0	0	460	5
PCT	10.0	20.7	22.2	18.3	13.9	5.9	3.9	1.1	2.6	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1884-1974AREA 0024 SOVA STRAIT W
45.6N 140.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	2.7	.0	3.6	.0	8.6	.0	.0	15.0	.9	.0	3.6	.0	.7	.0	79.8
NE	10.4	.0	1.8	.0	11.7	.0	.0	23.9	3.6	.0	7.2	.0	.2	.0	65.1
E	17.8	1.2	.0	1.2	9.3	.0	.0	29.4	1.2	.0	6.1	.0	.0	.0	63.3
SE	12.3	.0	1.3	.0	7.3	.0	.0	21.0	1.3	.0	5.0	.0	.0	.0	72.7
S	10.2	.7	1.8	.0	1.3	.0	.0	13.3	.5	.0	7.7	.0	.0	.0	78.4
SW	5.9	.0	.9	.0	.4	.0	.0	7.2	.9	.0	7.9	.0	.4	.4	83.2
W	1.7	.0	.0	.0	1.2	.0	.0	2.9	1.0	.0	7.1	.6	.0	.0	88.5
NW	.0	.0	1.0	.0	3.8	.0	.0	4.8	2.2	.0	1.4	.0	.0	.0	91.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.0	.0	.0	.0	88.0
TOT PCT	6.6														
TOT OBS:	1083	.2	1.2	.1	4.2	.0	.0	12.2	1.3	.0	6.4	.1	.2	.1	79.8

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA	
00003	5.0	.0	1.7	.3	4.0	.0	.0	10.6	1.7	.0	5.3	.0	.3	.0	82.1	
06009	8.0	.4	.8	.0	3.4	.0	.0	12.6	1.5	.0	7.6	.4	.4	.8	76.7	
12015	6.6	.3	2.1	.0	4.2	.0	.0	12.8	1.7	.0	4.8	.0	.0	.0	80.6	
18021	7.5	.0	.8	.0	4.9	.0	.0	13.2	.4	.0	7.5	.0	.0	.0	78.9	
TOT PCT TOT OBS:	6.7 1110	.2	1.3	.1	4.1	.0	.0	12.3	1.3	.0	6.3	.1	.2	.2	79.7	

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.3	4.4	3.7	1.0	.0	.0		10.4	11.1		9.2	10.8	6.8	8.7	13.5	10.4	11.6	12.3
NE	.7	4.4	2.8	1.3	.9	.0		10.1	14.1		9.0	7.5	7.6	12.4	9.7	8.6	13.4	13.1
E	.7	3.5	2.2	.9	.2	.0		7.6	12.1		7.4	9.4	9.0	5.9	7.7	7.7	3.8	8.0
SE	.8	3.4	2.3	.7	.8	.0		7.2	11.1		8.3	7.1	6.3	7.8	4.2	7.4	4.7	9.9
S	.9	5.1	5.4	1.7	.2	.0		13.3	12.9		17.4	11.7	11.9	12.4	12.3	13.9	11.3	13.9
SW	1.0	7.3	10.8	4.7	.4	.0		24.0	14.9		17.9	23.5	24.8	30.6	22.4	27.8	25.6	20.6
W	.9	6.1	6.2	2.5	.7	.0		16.4	14.1		14.0	21.9	23.2	18.7	19.6	12.4	11.0	13.1
NW	.3	3.5	3.4	1.4	.2	.0		8.8	13.9		11.7	6.5	8.0	4.8	8.9	11.8	12.8	7.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0		5.0	1.5	2.3	.7	1.6	.0	5.8	2.1
TOT OBS	97	415	405	156	29	0	1102		13.1		141	130	128	135	126	169	86	187
TOT PCT	8.8	37.7	36.8	14.2	2.6	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12
N	3.4	4.7	2.1	.3	.0			10.4	11.1	10.0	7.8	11.7
NE	3.0	3.8	2.0	1.2	.2			10.1	14.1	8.3	10.1	9.1
E	2.9	2.6	1.4	.6	.0			7.6	12.1	8.4	7.4	7.7
SE	2.5	3.2	1.3	.2	.8			7.2	11.1	7.7	7.0	6.0
S	3.4	6.1	3.2	.5	.1			13.3	12.9	14.7	12.2	13.2
SW	3.1	11.8	7.3	1.6	.2			24.0	14.9	20.6	27.8	23.5
W	3.9	7.0	3.9	1.3	.1			16.4	14.1	17.8	19.9	13.5
NW	1.6	4.1	2.7	.2	.1			8.8	13.9	9.2	6.4	10.6
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0
CALM	2.2							2.2	.0	3.3	1.5	.7
TOT OBS	288	476	263	66	9	1102			13.1	271	263	295
TOT PCT	26.1	43.2	23.9	6.0	.8			100.0		100.0	100.0	100.0

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1884-1974

APRIL

AREA 0024 SOYA STRAIT W
43.6N 140.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ*	TOTAL OBS
				11-21	22-33	34-47				
0000	3.3	5.2	36.9	38.4	14.4	1.8	.0	13.1	100.0	271
0600	1.5	4.2	33.8	41.4	14.8	4.2	.0	14.3	100.0	263
1200	.7	7.1	39.0	35.6	15.3	2.4	.0	13.2	100.0	295
1800	3.3	9.9	40.7	31.9	12.1	2.2	.0	11.9	100.0	273
TOT	24	73	415	405	156	29	0	13.1		1102
PCT	2.2	6.6	37.7	36.8	14.2	2.6	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.7	1.1	2.2	3.9		5.2
NE	1.4	.2	2.2	4.4		6.1
E	1.5	.2	.9	4.3		6.0
SE	.6	.0	1.1	3.9		6.8
S	5.2	.6	3.6	6.1		4.9
SW	9.1	3.7	5.0	4.7		3.7
W	6.5	2.4	3.2	3.6		3.8
NW	5.1	1.7	2.9	2.9		3.8
VAR	.0	.0	.0	.0		.0
CALM	1.4	.2	.9	1.1		4.3
TOT OBS	147	45	97	152	441	4.6
TOT PCT	33.3	10.2	22.0	34.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT+NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.9	.0	.2	.2	1.7	1.6	.6	.0	.0	.4	4.1	
NE	1.0	.0	.2	.2	1.2	1.8	.7	.2	.1	.0	2.8	
E	1.6	.0	.0	.0	1.2	1.4	.2	.0	.2	.2	1.9	
SE	.8	.0	.1	.0	1.5	1.2	.6	.2	.0	.2	1.0	
S	1.1	.0	.2	.7	2.2	2.8	1.4	.2	.4	.0	6.6	
SW	.7	.2	.2	.5	1.2	2.7	1.2	.3	.7	.2	14.4	
W	.5	.2	.0	.2	1.4	2.1	1.1	.0	.0	.0	10.3	
NW	.5	.1	.0	.5	1.6	1.4	1.1	.0	.0	.1	7.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7	.0	.0	.0	.5	.7	.2	.0	.0	.0	.0	
TOT OBS	34	2	4	10	55	69	32	4	6	5	220	441
TOT PCT	7.7	.5	.9	2.3	12.5	15.6	7.3	.9	1.4	1.1	49.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.0	2.2	2.2	2.4	2.4	2.4	2.4	2.4
>5000	2.2	2.8	3.1	3.3	3.3	3.3	3.3	3.3
>3500	7.0	9.4	10.5	10.7	10.9	11.1	11.3	11.3
>2000	15.7	22.7	24.4	25.7	25.9	26.8	27.0	27.0
>1000	20.9	32.5	35.5	37.0	37.7	38.6	39.0	39.0
>600	21.4	33.8	37.5	39.2	39.9	41.0	41.4	41.4
>300	21.4	34.0	38.3	40.1	40.7	41.8	42.3	42.3
>150	21.6	34.4	38.8	40.5	41.2	42.3	42.7	42.7
>0	21.8	36.2	41.4	45.1	47.7	49.0	51.0	51.0
TOTAL	100	106	190	207	219	225	234	234

TOTAL NUMBER OF OBS: 459

PCT FREQ NH <5/8: 49.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL OBSCD	TOTAL OBS
	24.0	4.3	7.9	4.9	7.3	4.5	6.9	6.7	25.8	7.7	492

APRIL

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1884-1974

AREA 0024 SOYA STRAIT W
45.0N 140.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.4	.4	.3	.2	.1	*	*	.0	.0	1.7	
	NO PCP	.0	.4	.0	.1	.3	.2	.2	*	.0	.1	1.3	
	TOT %	.2	.8	.4	.3	.5	.3	.2	.1	.0	.1	2.9	
1/2<1	PCP	.1	.2	.2	.1	.1	.1	*	.1	.0	.0	1.0	
	NO PCP	.0	.0	.1	.1	.0	.3	.2	.1	.0	.1	.8	
	TOT %	.1	.2	.3	.2	.1	.4	.2	.2	.0	.1	1.8	
1<2	PCP	.3	.6	.4	.5	.4	.5	.0	.1	.0	.0	2.8	
	NO PCP	.0	.4	.2	.1	.2	.4	.0	.0	.0	.1	1.3	
	TOT %	.3	1.0	.5	.6	.6	.8	.0	.1	.0	.1	4.0	
2<5	PCP	.6	.8	.6	.3	.5	.4	.1	.0	.0	.0	3.2	
	NO PCP	.3	.4	.3	*	.2	.7	.6	.2	.0	.0	2.8	
	TOT %	.9	1.2	.9	.3	.7	1.1	.6	.2	.0	.0	6.0	
5<10	PCP	.2	.6	.9	.3	.6	.3	.3	.2	.0	.0	3.3	
	NO PCP	2.2	1.2	1.2	1.3	4.2	5.9	3.1	1.6	.0	.5	21.1	
	TOT %	2.4	1.7	2.1	1.6	4.8	6.2	3.4	1.7	.0	.5	24.4	
10+	PCP	.1	.0	.0	.1	.2	.3	.0	.0	.0	.0	.6	
	NO PCP	6.1	5.5	3.8	3.8	7.1	13.7	11.5	7.2	.0	1.6	60.2	
	TOT %	6.2	5.5	3.8	3.9	7.3	14.0	11.5	7.2	.0	1.6	60.8	
TOT OBS													1087
TOT PCT		10.2	10.4	8.0	6.9	14.0	22.7	16.0	9.6	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.1	.1	.2	.1	.2	*	.0		1.0	
	11-21	.1	.1	.1	.0	.2	.1	.1	*	.0		.7	
	22+	.1	.3	.1	.1	.0	.0	.0	.0	.0		.6	
	TOT %	.3	.5	.3	.3	.4	.3	.3	.1	.0	.1	2.5	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.1	.1	.0	.0	.0	.1	.1	.0		.4	
	11-21	*	*	.2	.2	.0	.4	.1	*	.0		1.0	
	22+	.0	.1	.0	.0	.1	*	.0	.1	.0		.4	
	TOT %	.1	.2	.3	.2	.1	.4	.2	.2	.0	.1	1.9	
1<2	0-3	*	.1	.0	.0	.0	.1	.0	.0	.0	.1	.4	
	4-10	.2	.2	.3	.3	.3	.4	.1	.2	.0		1.9	
	11-21	.2	*	.2	.5	.5	.9	.0	.0	.0		2.3	
	22+	.1	.7	*	.2	.1	.5	.1	.0	.0		1.7	
	TOT %	.5	1.1	.5	1.0	.9	1.8	.2	.2	.0	.1	6.3	
2<5	0-3	.1	.1	.1	.2	.2	*	.1	.0	.0	.0	.7	
	4-10	.4	.3	*	.2	.6	.8	.4	.1	.0		2.7	
	11-21	.8	.6	.5	*	.3	1.5	.6	.3	.0		4.7	
	22+	.1	.4	.3	.2	.1	.6	.0	.0	.0		1.7	
	TOT %	1.3	1.4	1.0	.6	1.3	2.9	1.1	.4	.0	.0	9.9	
5<10	0-3	.2	.0	.1	.1	.4	.3	.0	.2	.0	.5	1.7	
	4-10	.9	.8	.9	.6	1.1	2.1	1.0	.3	.0		7.9	
	11-21	.8	.7	.6	.6	1.9	1.9	1.3	.7	.0		8.6	
	22+	.3	.2	.3	.1	.9	1.4	.9	.3	.0		4.4	
	TOT %	2.2	1.7	1.9	1.4	4.4	5.8	3.2	1.5	.0	.5	22.6	
10+	0-3	.9	.5	.5	.5	.3	.6	.8	.1	.0	1.5	5.8	
	4-10	2.8	3.0	2.0	2.1	3.0	3.9	4.2	2.8	.0		23.8	
	11-21	1.6	1.4	.6	1.1	2.4	5.7	4.2	2.3	.0		19.3	
	22+	.4	.5	.4	*	.6	2.5	2.1	1.2	.0		7.8	
	TOT %	5.7	5.4	3.6	3.8	6.3	12.7	11.3	6.4	.0	1.5	56.7	
TOT OBS													1091
TOT PCT		10.2	10.2	7.6	7.2	13.4	23.9	16.4	8.9	.0	2.2	100.0	

APRIL

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1884-1974AREA 0024 SOVA STRAIT W
45.0N 140.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	7.7	.0	1.2	1.8	13.1	14.9	11.9	.6	1.8	.6	53.6	46.4	168
06009	4.6	.8	1.5	4.6	13.7	18.3	6.1	2.3	.8	2.3	55.0	45.0	131
12015	8.3	.9	.0	.9	9.2	16.5	4.6	.0	1.8	.9	43.1	56.9	109
18021	15.2	.0	.0	1.5	10.6	7.6	6.1	.0	.0	.0	40.9	59.1	66
TOT	38	2	4	11	57	72	37	4	6	5	236	238	474
PCT	8.0	.4	.8	2.3	12.0	15.2	7.8	.8	1.3	1.1	49.8	50.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	4.7	.9	5.7	6.6	21.5	60.4	316
06009	1.8	1.8	5.7	10.0	23.1	57.7	281
12015	3.1	1.9	6.3	12.5	25.0	51.3	320
18021	3.1	3.5	6.6	10.0	21.1	55.7	289
TOT	39	24	79	118	274	678	1206
PCT	3.2	2.0	6.1	9.8	22.7	56.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	7.9	11.0	18.3	38.4	43.3	164
06009	4.6	8.5	19.2	36.2	44.6	130
12015	8.8	14.7	21.6	25.5	52.9	102
18021	15.9	15.9	23.8	20.6	55.6	63
TOT	38	54	92	149	218	459
PCT	8.3	11.8	20.0	32.3	47.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
59/59	2.6	.0	.0	.0	.0	.0	.0	.0	2	2.6
50/54	.0	.0	3.9	.0	.0	.0	.0	.0	3	3.9
45/49	.0	.0	.0	2.6	2.6	2.6	.0	.0	6	7.9
40/44	.0	.0	.0	2.6	1.3	7.9	3.9	3.9	15	19.7
35/39	.0	.0	2.6	5.3	5.3	14.5	5.3	11.8	34	44.7
30/34	.0	.0	.0	.0	2.6	2.6	5.3	5.3	12	15.8
25/29	.0	.0	.0	.0	3.9	1.3	.0	.0	4	5.3
TOTAL	2	0	5	8	12	22	11	16	76	100.0
PCT	2.6	.0	6.6	10.5	15.8	28.9	14.5	21.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	1.3	1.3	.0	.0
.0	.0	.0	.0	.0	.0	1.3	2.6	.0	.0
1.3	1.3	.0	.0	.0	.0	2.6	1.6	.0	1.3
2.0	1.6	2.3	.0	3.9	3.3	3.3	2.0	.0	1.3
4.9	5.6	5.3	4.6	4.3	4.6	9.2	4.9	.0	1.3
.0	7.2	3.3	.0	1.0	1.6	2.3	.3	.0	.0
1.3	.0	.0	1.3	.0	.0	.0	2.6	.0	.0
9.5	15.8	10.9	5.9	9.2	9.5	19.7	15.5	.0	3.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	57	55	50	41	32	25	21	40.4	299
06009	57	55	50	40	30	27	24	40.3	271
12015	56	52	47	39	31	28	19	39.3	311
18021	57	50	46	39	30	26	23	38.8	286
TOT	57	54	48	39	30	27	19	39.7	1167

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	4.0	20.0	16.0	36.0	8.0	16.0	70	25
06009	5.3	21.1	21.1	21.1	15.8	15.8	69	19
12015	.0	16.7	5.6	33.3	16.7	27.8	78	18
18021	.0	6.3	18.8	18.8	31.3	25.0	79	16
TOT	2	13	12	22	13	10	73	78

APRIL

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1884-1974

TABLE 17

AREA 0024 SOVA STRAIT W
45.6N 140.8EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	M FUG	WQ FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	2	.1	.1
14/16	.0	.0	.0	.0	.0	.1	.0	.2	.4	.1	8	.0	.9
11/13	.0	.0	.0	.0	.0	.2	.6	.2	.0	.0	10	.2	.9
9/10	.0	.0	.0	.0	.3	.4	.6	.3	.2	.0	18	.2	1.7
7/8	.0	.0	.0	.0	.3	1.7	1.7	.5	.1	.0	41	.3	4.1
6	.0	.0	.0	.0	.2	.5	.3	.2	.0	.0	12	.3	1.0
5	.0	.0	.0	.0	1.0	3.0	2.0	.3	.0	.0	59	.3	6.0
4	.0	.0	.0	.3	2.8	3.4	3.9	.2	.0	.0	100	1.0	9.7
3	.0	.0	.0	.4	1.2	1.0	.0	.0	.0	.0	24	.3	2.2
2	.0	.0	.1	1.2	4.6	4.4	3.2	.2	.0	.0	128	.7	12.9
1	.0	.0	.1	.3	1.1	1.1	.0	.3	.0	.0	27	.1	2.8
0	.0	.0	.7	2.9	6.9	5.7	1.7	.0	.0	.0	168	.7	17.2
-1	.0	.0	.1	1.0	1.3	.3	.0	.0	.0	.0	25	.2	2.5
-2	.0	.1	1.1	5.7	3.7	2.2	.7	.0	.0	.0	127	.7	12.8
-3	.0	.0	.3	.4	.6	.0	.1	.0	.0	.0	14	.0	1.5
-4	.0	.6	1.8	2.1	2.0	.9	.2	.0	.0	.0	72	.2	7.5
-5	.0	.2	.6	2.2	.6	.2	.1	.0	.0	.0	38	.2	3.8
-6	.0	.1	.0	.0	.3	.2	.0	.0	.0	.0	6	.1	.5
-7/-8	.1	.3	.7	.5	.3	.4	.3	.0	.0	.0	26	.0	2.8
-9/-10	.0	.0	.6	.2	.5	.2	.1	.0	.0	.0	16	.1	1.6
-11/-13	.1	.3	.4	.2	.1	.0	.0	.0	.0	.0	11	.1	1.1
-14/-16	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	5	.0	.5
TOTAL	3	16	67	164	262	241	144	28	10	2	937	57	880
PCT	.3	1.7	7.2	17.5	28.0	25.7	15.4	3.0	1.1	.2	100.0	6.1	93.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	2.6	.0	.0	.0	.0	3.2	.0	.9	.0	.0	.0	.0	.9
1-2	.0	1.5	1.4	.0	.0	.0	2.8	.0	.3	.4	.0	.0	.0	.7
3-4	.0	.9	1.2	.0	.0	.0	2.1	.0	.4	.9	.3	.0	.0	1.6
5-6	.0	.0	.0	.3	.0	.0	.3	.0	.0	.3	.5	.0	.0	.9
7	.0	.0	.5	.3	.0	.0	.7	.0	.0	.6	.3	.0	.0	.9
8-9	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.5	.3	.0	.8
10-11	.0	.0	.5	.8	.0	.0	1.3	.0	.0	.3	.1	.3	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	1.1
17-19	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.2	3.5	1.6	.0	.0	10.8	.0	1.6	2.6	2.2	1.9	.0	8.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.0	.3	.0	.0	.0	1.3	.0	.7	.0	.0	.0	.0	.7
1-2	.3	1.1	.7	.0	.0	.0	2.0	.0	.6	.9	.0	.0	.0	1.5
3-4	.0	.0	1.3	.7	.0	.0	.0	.0	.1	.1	.3	.0	.0	.5
5-6	.0	.0	1.1	.3	.0	.0	1.4	.0	.3	.9	.1	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.6	.3	.0	.0	.5
10-11	.0	.0	.3	.2	.0	.0	.5	.0	.0	.3	.3	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.1	3.6	1.7	.0	.0	7.9	.0	1.6	2.8	1.0	.1	.0	5.5

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0024 SOYA STRAIT W
45.6N 140.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.1	.3	.0	.0	.0	2.3	.3	1.0	.5	.0	.0	.0	1.8	
1-2	.0	2.1	.5	.0	.0	.0	2.5	.0	1.3	2.1	.0	.0	.0	3.4	
3-4	.0	.7	2.7	.3	.0	.0	3.6	.3	.9	5.8	.5	.0	.0	7.3	
5-6	.0	.0	.9	.7	.0	.0	1.6	.0	.0	2.6	.9	.0	.0	3.4	
7	.0	.0	.7	.5	.0	.0	1.2	.0	.1	.5	1.3	.0	.0	1.9	
8-9	.0	.0	.5	.3	.0	.0	.7	.0	.0	.1	2.1	.1	.0	2.2	
10-11	.0	.0	.3	.2	.0	.0	.5	.0	.0	.3	.5	.3	.0	1.1	
12	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.8	5.8	1.9	.4	.0	12.8	.5	3.2	11.8	5.5	.6	.0	21.6	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	1.1	.5	.0	.0	.0	2.1	.0	.8	.5	.0	.0	.0	1.3	
1-2	.0	2.3	1.3	.0	.0	.0	3.6	.0	1.7	1.1	.0	.0	.0	2.8	
3-4	.0	.5	3.4	.9	.0	.0	4.8	.0	.6	2.6	.3	.0	.0	3.5	
5-6	.0	.0	2.4	.3	.0	.0	2.7	.0	.3	.9	.3	.0	.0	1.2	
7	.0	.5	.8	1.2	.0	.0	2.4	.0	.0	.3	.3	.0	.0	.5	
8-9	.0	.0	.3	.7	.4	.0	1.4	.0	.1	.3	.1	.1	.0	.5	
10-11	.0	.0	.5	.0	.3	.0	.8	.0	.0	.0	.5	.0	.0	.5	
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.4	9.3	3.3	.7	.0	18.1	.0	3.4	5.7	1.4	.3	.0	10.8	95.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.6	10.1	2.1	.0	.0	.0	17.7	
1-2	.3	10.8	8.2	.0	.0	.0	19.3	
3-4	.5	4.0	18.0	3.2	.0	.0	25.7	
5-6	.0	.5	9.3	2.9	.0	.0	12.7	
7	.0	.5	4.0	3.7	.0	.0	8.2	
8-9	.0	.3	1.3	4.5	.8	.0	6.9	
10-11	.0	.0	2.1	2.4	.8	.0	5.3	
12	.0	.0	.0	.8	.3	.0	1.1	
13-16	.0	.0	.0	.5	1.1	.0	1.6	
17-19	.0	.0	.0	.5	.8	.0	1.3	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.3	26.2	45.0	18.5	4.0	.0	100.0	378

PERIOD: (OVER-ALL) 1950-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	9.1	13.6	5.7	2.3	1.5	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	157	4
6-7	.0	.9	3.0	5.7	3.2	3.0	1.5	.4	1.1	.6	.4	.2	.0	.0	.0	.0	.0	.0	.0	94	7
8-9	.0	.0	1.1	1.1	1.5	1.7	2.8	.2	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	8
10-11	.0	.4	.2	.6	.4	.2	.6	.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	9
12-13	.0	.0	.6	.2	.6	.2	.6	.2	.4	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	17	11
>13	.0	.0	.0	.4	1.3	.6	.4	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	8
INDEX	8.5	3.8	6.2	4.0	1.7	1.1	1.1	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	126	3
TOTAL	42	67	116	84	52	39	34	7	16	7	3	?	1	0	0	0	0	0	0	470	5
PCT	8.9	14.3	24.7	17.9	11.1	8.3	7.2	1.5	3.4	1.5	.6	.4	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1879-1974

MAY

TABLE 1

AREA 0024 SUYA STRAIT W
45.9N 140.7E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE															OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA						
N	10.8	.0	4.3	.0	1.8	.0	.0	16.3	.6	.0	9.4	.0	.6	.6	72.4						
NE	15.1	.1	3.2	.0	.3	.5	.0	18.9	1.0	.0	14.9	.0	1.0	.5	63.6						
E	13.6	.4	3.4	.0	.0	.0	.0	17.1	.5	.0	16.5	.0	1.2	.5	64.2						
SE	11.7	1.4	1.7	.0	.0	.0	.0	14.8	2.2	.0	19.5	.0	1.2	.0	62.3						
S	8.8	.3	1.2	.0	.0	.0	.0	10.3	1.1	.0	22.8	.9	.9	.0	64.1						
SW	3.6	.1	1.6	.0	.0	.0	.0	5.2	1.0	.0	23.8	.1	.8	.0	69.2						
W	3.6	.8	.8	.0	.0	.0	.0	5.3	.0	.0	11.0	.8	.6	.0	82.2						
NW	4.9	.0	4.6	.0	.6	.0	.0	10.1	.0	.0	11.6	.0	1.2	.0	77.1						
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0						
CALM	2.9	.0	2.9	.0	.0	.0	.0	5.7	.0	.0	31.4	.0	.0	.0	62.9						
TOT PCT	8.6	.3	2.4	.0	.2	.1	.0	11.5	.9	.0	18.6	.2	.9	.2	67.8						
TOT OBS:	1613																				

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE																OTHER WEATHER PHENOMENA									
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA										
00003	8.2	.0	2.2	.0	.7	.0	.0	11.2	1.5	.0	18.4	.2	1.2	.5	67.0										
06009	6.1	.5	1.6	.0	.0	.3	.0	8.4	1.1	.0	14.5	.5	1.6	.0	73.9										
12015	9.8	.0	3.3	.0	.2	.0	.0	13.0	.4	.0	16.3	.2	.6	.2	69.2										
18021	9.3	.8	2.0	.0	.0	.0	.0	11.8	1.0	.0	24.9	.0	.3	.0	62.1										
TOT PCT	8.4	.3	2.3	.0	.2	.1	.0	11.3	1.0	.0	18.4	.2	.9	.2	68.0										
TOT OBS:	1671																								

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.6	4.7	4.2	.8	.0	.0		10.3	11.5	10.3	11.9	12.9	13.0	10.3	8.5	7.3	8.5		
NE	1.0	5.2	4.8	1.4	.8	.0		12.4	11.9	9.2	14.3	10.7	12.5	9.3	14.5	13.2	15.0		
E	1.0	5.3	4.1	1.4	.2	.0		12.0	12.2	10.0	7.2	10.9	9.7	12.5	14.1	11.5	17.6		
SE	.7	4.8	3.2	.3	.0	.0		9.0	10.0	8.4	6.7	9.3	8.1	9.5	10.3	9.8	9.5		
S	1.6	7.3	7.2	1.4	.1	.0		17.6	11.7	21.2	18.2	23.0	12.7	22.2	15.0	15.3	13.9		
SW	1.9	7.6	10.6	2.3	.2	.0		22.6	13.0	22.0	26.5	19.6	25.4	20.0	22.0	26.6	20.3		
W	1.1	3.9	2.1	.4	.0	.0		7.5	9.8	10.0	9.4	6.9	9.3	4.7	6.8	4.2	8.8		
NW	.7	2.9	1.9	.1	.0	.0		5.2	8.2	5.6	4.3	4.0	6.9	4.9	6.8	5.0	3.5		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.5							.0	.0										
TOT OBS	201	695	628	133	8	0	1665	3.5	.0	3.4	1.6	2.9	2.5	6.7	1.9	7.1	2.9		
TOT PCT	12.1	41.7	37.7	8.0	.5	.0		100.0	11.2	206	187	175	204	240	258	155	240		
										100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	3.2	4.7	2.2	.2	.0			11.1	12.9	9.4	8.0
NE	3.5	5.7	2.9	.4	.0			11.6	11.7	12.0	14.3
E	3.8	4.9	2.5	.7	.1			8.7	10.2	13.4	13.2
SE	3.3	4.3	1.3	.2	.0			7.6	8.6	9.9	9.6
S	4.5	8.6	4.2	.3	.0			17.6	11.7	19.8	17.5
SW	4.7	10.4	6.5	.9	.1			24.1	22.7	21.0	22.8
W	2.9	3.4	1.1	.2	.0			9.7	8.2	5.8	7.0
NW	2.4	2.5	.3	.0	.0			5.0	5.3	5.9	4.1
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0
CALM	3.3	.0	.0	.0	.0			.0	.0	.0	.0
TOT OBS	528	740	349	46	2	1665		2.5	2.6	4.2	4.6
TOT PCT	31.7	44.4	21.0	2.8	.1			393	379	498	395
								100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1879-1974

MAY

AREA 0024 SOYA STRAIT W
45.5N 140.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.5	7.6	40.7	41.7	7.4	.0	.0	11.4	100.0	393
0600	2.6	8.2	39.8	38.5	10.3	.5	.0	11.7	100.0	379
1215	4.2	8.6	43.8	35.5	6.8	1.0	.0	11.1	100.0	498
1821	4.6	9.6	42.0	35.7	7.8	.3	.0	10.6	100.0	395
TOT	59	142	695	628	133	8	0	11.2		1665
PCT	3.5	8.5	41.7	37.7	8.0	.5	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	.5	2.4	5.4		6.1
NE	.8	.4	3.4	4.9		6.5
E	.4	.3	2.5	7.8		7.2
SE	1.6	1.3	1.8	6.0		6.0
S	6.1	1.3	3.6	9.4		5.1
SW	7.4	2.3	3.3	8.5		4.6
W	2.1	.6	1.3	1.8		4.3
NW	1.2	.8	.9	2.0		5.1
VAR	.0	.0	.0	.0		.0
CALM	2.1	.9	.7	2.7		4.7
TOT OBS	164	58	138	340	700	5.5
TOT PCT	23.4	8.3	19.7	48.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
1.5	.1	.3	.6	.8	2.3	.8	.0	.3	.1	3.2	
.9	.0	.0	.4	1.9	3.3	.6	.1	.1	.3	1.9	
1.3	.0	.3	.9	1.9	3.8	.5	.4	.1	.3	1.6	
1.3	.0	.6	1.4	2.1	1.0	.1	.3	.1	.3	3.7	
3.4	.0	.3	1.9	2.3	1.0	.3	.8	.6	.6	9.5	
3.5	.0	.0	1.6	3.3	.8	.4	.3	.2	11.1		
.5	.0	.1	.0	1.4	.4	.0	.0	.0	.0	3.0	
.8	.0	.0	.0	1.1	1.5	.3	.0	.0	.1	2.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.9	.0	.0	.0	.7	.4	1.0	.1	.0	.0	3.3	
98	1	7	23	75	142	45	10	13	12	274	700
14.0	.1	1.0	3.3	10.7	20.3	6.4	1.4	1.9	1.7	39.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.5	3.0	3.5	3.5	3.5	3.5	3.5	3.5
>5000	2.6	4.4	4.8	4.8	4.8	4.8	4.8	4.8
>3500	6.5	9.4	10.8	10.8	10.8	10.8	10.8	10.8
>2000	17.7	27.8	30.8	31.4	31.4	31.4	31.7	31.7
>1000	20.5	36.2	41.1	42.2	42.3	42.3	42.6	42.6
>600	21.3	38.0	44.1	45.2	45.5	45.5	45.8	45.8
>300	21.4	38.5	44.8	46.1	46.3	46.3	46.6	46.6
>150	21.6	38.6	45.0	46.2	46.5	46.5	46.7	46.7
>0	21.9	40.4	49.0	50.9	52.0	54.5	59.5	60.6
TOTAL	198	292	354	368	376	394	430	438

TOTAL NUMBER OF OBS: 723

PCT FREQ NH <5/8 39.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
22.0	1.7	6.2	5.0	3.4	4.6	5.5	7.1	31.6	13.0	786

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1879-1974

MAY

AREA 0024 SOYA STRAIT W
45.5N 140.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.2	.1	.1	.1	.1	.1	.0	.0	.8	
	NO PCP	.4	.9	.5	.7	1.6	2.0	.4	.2	.0	.4	7.1	
	TOT %	.5	1.0	.6	.8	1.7	2.0	.5	.3	.0	.4	7.9	
1/2<1	PCP	.1	.2	.2	.1	.1	.1	.0	.0	.0	.0	.7	
	NO PCP	.1	.2	.3	.2	.2	.3	.0	.1	.0	.0	1.3	
	TOT %	.2	.3	.5	.2	.3	.4	.0	.1	.0	.0	2.1	
1<2	PCP	.1	.3	.3	.2	.3	.1	.1	*	.0	.0	1.4	
	NO PCP	.2	.2	.4	.2	.6	.7	*	.1	.0	.2	2.6	
	TOT %	.3	.5	.7	.3	1.0	.8	.1	.1	.0	.2	4.1	
2<5	PCP	.5	.9	.9	.5	.9	.4	.0	.2	.0	.2	4.4	
	NO PCP	.3	.3	.6	.5	1.3	1.6	.3	.2	.0	.4	5.6	
	TOT %	.7	1.2	1.5	1.0	2.3	2.0	.3	.4	.0	.6	10.0	
5<10	PCP	.7	.6	.5	.5	.3	.4	.1	.1	.0	.1	3.3	
	NO PCP	2.3	2.7	3.0	2.5	4.9	5.4	1.4	1.6	.0	.7	24.5	
	TOT %	3.0	3.3	3.5	3.0	5.3	5.8	1.5	1.7	.0	.7	27.8	
10+	PCP	.2	.2	.0	.0	.1	.1	.1	.1	.0	.0	.8	
	NO PCP	5.2	5.6	5.0	3.8	7.5	10.8	4.8	2.4	.0	2.4	47.4	
	TOT %	5.4	5.8	5.0	3.8	7.6	10.9	4.9	2.5	.0	2.4	48.2	
TOT OBS													
TOT PCT													
		10.1	12.1	11.9	9.2	18.1	21.8	7.3	5.1	.0	4.4	100.0	1603

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.2	.1	*	.1	.4	.1	.1	.0	.2	1.4	
	4-10	.5	.6	.2	.4	.8	.6	.3	.3	.0		3.7	
	11-21	.2	.2	.3	.2	.5	.8	.1	*	.0		2.3	
	22+	.0	.1	.2	.0	.1	.1	.0	.0	.0		.4	
	TOT %	.7	1.1	.8	.6	1.5	1.9	.5	.4	.0	.2	7.7	
1/2<1	0-3	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.2	
	4-10	.1	.3	.1	.1	.2	.2	.0	.1	.0		1.2	
	11-21	.1	.1	.2	.1	.1	.2	.0	.0	.0		.9	
	22+	.0	.1	.1	.0	.0	.1	.0	.0	.0		.2	
	TOT %	.2	.5	.5	.2	.4	.5	.0	.1	.0	.0	2.5	
1<2	0-3	.1	.1	.1	.1	.3	.2	.0	.0	.0	.2	1.1	
	4-10	.1	.2	.5	.2	.2	.2	.1	.2	.0		1.7	
	11-21	.0	.3	.2	.2	.4	.5	*	.0	.0		1.7	
	22+	.0	.2	.2	*	.1	.2	.0	.0	.0		.7	
	TOT %	.3	.7	1.1	.5	1.0	1.0	.1	.2	.0	.2	5.1	
2<5	0-3	.1	.1	.2	*	.3	.3	.2	.1	.0	.6	1.7	
	4-10	.5	.4	.7	.4	.8	1.1	.3	.5	.0		4.9	
	11-21	.6	.6	1.0	.5	1.0	1.4	.2	.1	.0		5.4	
	22+	.1	.4	.4	.2	.3	.3	*	.0	.0		1.7	
	TOT %	1.2	1.6	2.3	1.2	2.4	3.2	.7	.7	.0	.6	13.7	
5<10	0-3	.1	.2	.2	.2	.4	.4	.2	.3	.0	.6	2.4	
	4-10	1.0	1.3	1.3	1.5	2.1	1.5	.5	.7	.0		9.9	
	11-21	1.4	1.5	1.0	.9	2.0	2.6	.6	.5	.0		10.6	
	22+	.4	.2	.4	"	.4	.9	*	.1	.0		2.5	
	TOT %	2.8	3.2	3.0	2.6	4.9	5.4	1.4	1.6	.0	.6	25.3	
10+	0-3	.3	.4	.2	.3	.6	.6	.6	.4	.0	2.0	5.4	
	4-10	2.6	2.5	2.6	2.1	2.9	3.9	2.6	1.1	.0		20.3	
	11-21	2.0	2.1	1.3	1.2	3.1	5.0	1.3	.8	.0		16.9	
	22+	.4	.4	.4	*	.6	1.0	.3	.0	.0		3.1	
	TOT %	5.3	5.5	4.5	3.7	7.1	10.5	4.8	2.3	.0	2.0	45.6	
TOT OBS													
TOT PCT													
		10.5	12.5	12.1	8.8	17.4	22.4	7.5	5.2	.0	3.6	100.0	1626

MAY

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1879-1974AREA 0024 SOVA STRAIT W
45.5N 140.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	11.0	.4	2.2	3.1	8.8	28.6	6.2	.4	2.2	1.8	64.8	35.2	227
06009	12.9	.0	.0	4.1	8.8	25.3	6.7	2.1	1.5	3.1	64.4	35.6	194
12015	15.8	.0	.0	3.0	13.4	13.9	5.9	.5	2.0	1.0	55.4	44.6	202
18021	17.3	.0	1.6	1.6	13.4	8.7	4.7	3.1	.8	.0	51.2	48.8	127
TOT	104	1	7	23	81	153	45	10	13	12	449	301	750
PCT	13.9	.1	.9	3.1	10.8	20.4	6.0	1.3	1.7	1.6	59.9	40.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	7.6	2.4	4.5	12.6	26.4	46.6	421
06009	9.6	2.0	3.4	11.5	22.1	51.4	407
12015	7.1	2.6	5.8	14.1	26.2	44.2	538
18021	8.7	2.6	6.6	15.0	27.7	39.4	426
TOT	146	43	92	240	460	811	1792
PCT	8.1	2.4	5.1	13.4	25.7	45.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	10.6	15.2	25.8	41.9	32.3	217
06009	13.6	14.1	24.6	43.5	31.9	191
12015	16.3	16.3	26.0	31.6	42.3	196
18021	16.8	20.2	37.8	21.8	40.3	119
TOT	101	116	199	262	262	723
PCT	14.0	16.0	27.5	36.2	36.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	.9	.0	.0	1	.9
50/84	.0	.0	.0	.0	1.9	3.7	.9	3.7	11	10.3
45/49	.0	.0	.0	.9	6.5	12.1	20.6	44	41.1	
40/44	.0	.0	.0	.0	.9	2.8	10.3	23.4	40	37.4
35/39	.0	.0	.0	.0	.0	1.9	1.9	5.6	10	9.3
30/34	.0	.0	.0	.0	.0	.0	.0	.9	1	.9
TOTAL	0	0	0	1	4	17	27	58	107	100.0
PCT	.0	.0	.0	.9	3.7	15.9	25.2	54.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.9	.0	.0	.0	.0
.0	.0	2.6	.2	3.7	1.2	1.6	.0	.0	.9
3.3	4.2	3.3	6.8	10.3	9.1	3.0	1.2	.0	.0
4.4	4.9	1.6	7.5	9.6	5.4	1.6	1.4	.0	.9
.9	.9	.9	.9	1.9	2.8	.9	.0	.0	.0
.0	.0	.0	.0	.9	.0	.0	.0	.0	.0
8.6	10.0	8.4	15.4	26.4	19.4	7.2	2.6	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	68	63	57	46	37	32	32	46.7	425
06009	66	63	57	46	37	36	34	46.6	403
12015	64	57	53	45	37	36	32	45.0	536
18021	64	57	52	45	36	32	30	44.5	428
TOT	68	61	54	45	37	34	30	45.7	1792

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.0	6.1	18.2	21.2	51.5	85	33		
06009	.0	.0	.0	16.1	35.5	48.4	87	31		
12015	.0	.0	4.2	25.0	20.8	50.0	86	24		
18021	.0	.0	4.5	4.5	27.3	63.6	90	22		
TOT	0	1	4	18	29	58	87	110		

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1879-1974

MAY

AREA 0024 SOYA STRAIT W
45.5N 140.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	4	.1	.2
17/19	.0	.0	.0	.0	.0	.2	.1	.3	.0	.1	9	.1	.5
14/16	.0	.0	.0	.0	.1	.3	.3	.5	.1	.0	21	.3	1.0
11/13	.0	.0	.0	.0	.6	.6	.4	.1	.2	.0	29	.1	1.8
9/10	.0	.0	.0	.3	1.2	1.1	.9	.1	.1	.0	58	1.0	2.7
7/8	.0	.0	.1	.5	2.0	1.1	1.3	.8	.3	.0	93	.9	5.1
6	.0	.0	.1	.3	.8	.7	.2	.0	.0	.0	30	.2	1.8
5	.0	.0	.1	.5	3.8	1.0	.8	.1	.1	.0	100	1.5	5.0
4	.0	.0	.6	1.4	4.9	3.2	.8	.3	.1	.0	173	2.7	8.5
3	.0	.0	.3	.6	1.6	.7	.2	.0	.0	.0	51	.7	2.6
2	.0	.3	1.4	3.6	8.9	2.5	.6	.2	.1	.0	271	3.6	14.0
1	.0	.1	.5	1.3	1.0	.4	.0	.0	.0	.0	50	.7	2.6
0	.1	.3	1.7	4.7	6.7	.9	.1	.1	.0	.0	223	2.7	11.8
-1	.0	.1	.3	.7	.7	.2	.0	.0	.0	.0	31	.5	1.6
-2	.1	.5	2.3	3.3	4.6	.7	.1	.0	.0	.0	179	1.6	10.1
-3	.0	.1	.4	.8	.5	.3	.0	.0	.0	.0	31	.3	1.7
-4	.0	.2	1.0	1.9	.8	.1	.0	.0	.0	.0	61	.5	3.5
-5	.1	.5	1.2	1.3	.5	.0	.0	.0	.0	.0	54	.6	2.9
-6	.1	.1	.3	.1	.1	.0	.0	.0	.0	.0	10	.2	.5
-7/-8	.0	.1	.8	.7	.3	.1	.0	.0	.0	.0	32	.5	1.6
-9/-10	.0	.1	.2	.1	.1	.1	.0	.0	.0	.0	9	.0	.6
-11/-13	.0	.2	.1	.2	.1	.1	.0	.0	.0	.0	11	.1	.7
-14/-16	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	4	.0	.3
-17/-19	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	4	.0	.3
TOTAL	7	37	177	346	605	219	90	38	17	2	1538	289	1249
PCT	.5	2.4	11.5	22.5	39.3	14.2	5.9	2.5	1.1	.1	100.0	18.8	81.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	N								NE							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.1	1.5	.0	.0	.0	.0	1.6		.2	1.1	.2	.0	.0	.0	1.5	
1-2	.1	1.3	1.3	.0	.0	.0	2.7		.2	.9	1.2	.0	.0	.0	2.3	
3-4	.0	.3	1.5	.2	.0	.0	2.0		.0	.2	1.4	.4	.0	.0	2.0	
5-6	.0	.0	1.0	.5	.0	.0	1.5		.0	.2	1.0	.4	.0	.0	1.6	
7	.0	.0	1.0	.4	.0	.0	1.3		.0	.0	.6	.5	.0	.0	1.0	
8-9	.0	.0	.2	.5	.0	.0	.6		.0	.0	.5	.5	*	.0	1.0	
10-11	.0	.0	.2	.7	.0	.0	.9		.0	.0	.2	.2	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.1	5.0	2.2	.0	.0	10.6		.5	2.4	5.4	2.2	*	.0	10.5	

	E								SE							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	.8	.3	.0	.0	.0	1.3		.0	1.2	*	.0	.0	.0	1.2	
1-2	.0	1.9	1.4	.0	.0	.0	3.3		.2	.8	1.4	.0	.0	.0	2.4	
3-4	.0	.4	1.0	.4	.0	.0	1.8		.0	.5	2.1	*	.0	.0	2.6	
5-6	.0	.2	1.2	.7	.0	.0	2.1		.0	*	1.1	.2	.0	.0	1.4	
7	.0	.0	.2	.4	.0	.0	.6		.0	.2	.2	.3	.0	.0	.6	
8-9	.0	.2	.0	.7	.3	.0	1.2		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.2	.0	.0	.0	.0	.2		.0	.2	.2	.0	.0	.0	.4	
12	.0	.0	.2	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.2	.0	.4		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.1	.0	.0	.2	.0	.3		.0	*	.0	.0	.0	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	3.8	4.3	2.4	.7	.0	11.4		.2	2.9	5.0	.5	.0	.0	8.6	

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0024 SOYA STRAIT W
45.9N 140.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.1	.6	.0	.0	.0	2.9	.5	1.5	.1	.0	.0	.0	2.1
1-2	.1	2.9	3.5	.0	.0	.0	6.6	.*	1.2	3.2	.0	.0	.0	6.4
3-4	.0	1.0	3.2	.5	.0	.0	4.7	.0	.8	5.0	1.3	.0	.0	7.1
5-6	.0	.1	2.1	.5	.0	.0	2.8	.0	.0	3.3	.7	.4	.0	4.4
7	.0	.0	.9	.9	.0	.0	1.8	.0	.*	1.3	.3	.0	.0	1.7
8-9	.0	.0	.3	.2	.0	.0	.5	.0	.0	.4	.0	.0	.0	.4
10-11	.1	.0	.5	.3	.0	.0	1.0	.*	.0	.6	.4	.0	.0	1.0
12	.0	.1	.2	.3	.0	.0	.6	.0	.*	.0	.*	.0	.0	.1
13-16	.0	.0	.1	.1	.0	.0	.3	.0	.0	.*	.*	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	6.3	11.5	2.9	.0	.0	21.1	.6	3.5	14.0	2.9	.4	.0	21.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.0	.1	.0	.0	.0	1.2	.4	.8	.*	.0	.0	.0	1.2	
1-2	.0	1.4	1.1	.0	.0	.0	2.5	.0	1.5	.8	.0	.0	.0	2.3	
3-4	.0	.4	.8	.1	.0	.0	1.3	.0	.*	.6	.0	.0	.0	.7	
5-6	.0	.4	.4	.2	.0	.0	1.0	.0	.0	.2	.0	.0	.0	.2	
7	.0	.1	.2	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.3	2.8	.3	.0	.0	6.4	.4	2.4	1.8	.0	.0	.0	4.5	94.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.1	10.0	1.5	.0	.0	.0	18.5	
1-2	.7	11.8	14.0	.0	.0	.0	26.5	
3-4	.0	3.6	15.6	2.9	.0	.0	22.2	
5-6	.0	.9	10.4	3.3	.4	.0	14.9	
7	.0	.4	4.4	2.7	.0	.0	7.5	
8-9	.0	.2	1.5	1.8	.4	.0	3.8	
10-11	.2	.4	1.8	1.6	.0	.0	4.0	
12	.0	.2	.5	.4	.0	.0	1.1	
13-16	.0	.0	.2	.7	.2	.0	1.1	
17-19	.0	.2	.0	.0	.2	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.0	27.6	49.8	13.5	1.1	.0	100.0	550

PERIOD: (OVER-ALL) 1956-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	12.3	13.8	8.7	2.6	.9	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	284	3
6-7	.1	.7	3.0	3.3	3.5	1.9	2.0	.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	6
8-9	.0	.4	.7	1.3	1.3	.7	1.0	.3	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	7
10-11	.0	.3	.3	.0	.3	.9	.1	.4	.4	.1	.0	.0	.9	.0	.0	.0	.0	.0	.0	20	9
12-13	.0	.0	.4	.1	.1	.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	7
>13	.0	.0	.0	.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
INDET	8.6	9.0	8.3	3.6	1.4	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	215	2
TOTAL	74	157	183	119	70	31	32	9	12	3	0	0	0	0	0	0	0	0	0	690	4
PCT	10.7	22.8	26.5	17.2	10.1	4.5	4.6	1.3	1.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1870-1974

JUNE

AREA 0024 SOYA STRAIT W
45.4N 140.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NU SIG WEA
N	8.8	.6	1.2	.0	.0	.0	.0	10.5	1.7	.0	16.2	.0	.6	.0	71.0
NE	10.8	.3	3.0	.0	.0	.0	.0	14.1	1.4	.0	12.0	1.1	.0	.3	71.0
E	12.6	.0	3.1	.0	.0	.0	.0	15.4	1.2	.7	22.3	.3	.7	.3	59.1
SE	9.5	.0	1.6	.0	.0	.0	.0	11.0	1.3	.0	20.5	.0	.6	1.0	65.5
S	3.7	.0	2.2	.0	.0	.0	.0	5.6	.9	.0	29.7	.5	.2	.0	63.1
SW	1.7	.0	2.3	.0	.0	.0	.0	4.0	.6	.2	32.9	.3	.0	.0	62.0
W	1.8	.0	1.1	.0	.0	.0	.0	2.9	3.4	.0	33.0	.7	.0	.0	59.9
NW	5.0	.0	2.7	.0	.0	.0	.0	7.7	.3	.0	25.7	.0	1.3	1.3	63.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4	.0	3.0	.0	.0	.0	.0	5.5	.6	.0	31.1	.0	.0	.0	62.8
TOT PCT	6.5	.1	2.3	.0	.0	.0	.0	8.8	1.2	.1	24.7	.4	.3	.2	64.3
TOT OBS:	2184														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	7.0	.2	2.6	.0	.0	.0	.0	9.5	2.2	.0	23.8	.2	.2	.0	.0	64.1
06009	4.7	.0	1.2	.0	.0	.0	.0	5.9	1.2	.2	23.2	.4	.2	.4	.0	68.6
12015	7.4	.2	2.1	.0	.0	.0	.0	9.5	.9	.2	23.0	.3	.6	.3	.0	65.2
18021	8.0	.0	3.4	.0	.0	.0	.0	11.4	.7	.2	28.3	.7	.2	.2	.0	58.3
TOT PCT TOT OBS:	6.8 2256	.1	2.3	.0	.0	.0	.0	9.1	1.2	.1	24.5	.4	.3	.2	.0	64.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.6	4.2	2.1	.3	.1	.0		8.3	8.8		4.2	10.5	7.5	9.0	10.0	9.4	8.9	6.7
NE	1.5	6.8	6.6	1.4	.2	.0		16.4	11.6		16.5	12.3	16.1	15.3	19.2	15.8	20.9	15.7
E	1.1	6.2	4.8	.8	.1	.0		13.1	11.0		12.5	12.1	10.8	12.3	13.5	13.9	8.3	18.2
SE	1.2	5.8	2.1	.5	.0	.0		9.6	8.9		11.8	10.6	9.8	6.2	8.2	10.9	9.8	9.6
S	2.0	9.3	3.9	.7	.1	.0		15.9	9.3		19.7	16.8	18.7	15.6	16.0	15.7	10.3	13.8
SW	2.0	10.0	6.9	1.1	.1	.0		20.1	10.7		14.5	25.4	18.6	25.3	14.4	17.9	21.5	24.3
W	1.2	3.7	1.1	.1	.0	.0		6.2	7.4		8.2	6.1	4.2	5.8	5.4	6.5	8.6	5.4
NW	.9	2.0	.4	.0	.0	.0		3.3	6.1		3.5	4.0	3.5	4.8	2.2	4.8	1.1	2.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.1							7.1	.0		9.2	2.3	10.9	5.8	11.1	5.1	10.6	4.1
TOT OBS	424	1088	639	110	13	0	2270		9.2		273	263	238	259	315	372	207	343
TOT PCT	18.7	47.9	28.0	4.8	.6	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12
N	4.1	3.2	.8	.2	.0		8.3	8.8	7.3	8.2	9.7	7.5
NE	5.1	7.2	3.7	.4	.0		16.4	11.6	14.4	15.6	17.4	17.7
E	4.1	6.4	2.4	.2	.0		13.1	11.0	12.3	11.6	13.7	14.5
SE	4.5	4.0	.9	.2	.0		9.6	8.9	11.2	7.9	9.6	9.7
S	6.8	6.9	1.7	.5	.0		15.9	9.3	18.3	17.1	15.8	12.5
SW	6.6	9.4	3.6	.5	.0		20.1	10.7	19.8	22.1	16.3	23.3
W	3.3	2.5	.4	.0	.0		6.2	7.4	7.1	5.0	6.0	6.6
NW	2.2	1.0	.0	.0	.0		3.3	6.1	3.7	4.2	3.6	1.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.1						7.1	.0	5.8	8.2	7.9	8.5
TOT OBS	997	924	306	43	0	2270		9.2	536	497	687	590
TOT PCT	43.9	40.7	13.5	1.9	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1870-1974

JUNE

AREA 0024 SOYA STRAIT W
45.4N 140.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000Z	5.8	10.6	45.3	32.6	4.7	.9	.0	9.8	100.0	536
0600Z	8.2	10.3	44.5	31.2	5.4	.4	.0	9.6	100.0	497
1200Z	7.9	11.5	51.2	24.3	4.7	.4	.0	8.8	100.0	687
1800Z	6.5	13.6	49.5	25.1	4.7	.5	.0	8.8	100.0	550
TOT	162	242	1088	635	110	13	0	9.2		2270
PCT	7.1	11.5	47.9	28.0	4.8	.6	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.7	2.2	3.0		5.9
NE	2.7	.8	4.3	9.9		6.2
E	1.9	.3	2.1	8.9		6.6
SE	2.1	1.0	2.3	4.2		5.6
S	4.5	1.4	3.4	7.4		5.2
SW	3.6	1.0	4.2	6.4		5.4
W	1.2	.9	1.6	3.1		5.7
NW	.7	.3	1.1	1.2		5.4
VAR	.0	.0	.0	.0		.0
CALM	.0	1.0	1.2	5.3		5.0
TOT OBS	189	65	198	434	886	5.7
TOT PCT	21.3	7.3	22.3	49.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT+NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.7	.0	.1	.1	.9	1.6	.7	.2	.3	.0	2.5	
NE	1.2	.1	.0	.0	3.0	5.8	1.3	.4	.2	.4	4.9	
E	1.9	.0	.2	.6	2.8	3.0	.7	.2	.6	.1	3.0	
SE	1.3	.1	.0	.2	1.0	2.4	.3	.1	.4	.2	3.6	
S	3.1	.3	.1	.5	1.9	2.3	.6	.2	.1	.1	7.2	
SW	3.1	.0	.0	.3	1.6	2.5	1.4	.0	.2	.3	5.7	
W	1.3	.0	.1	.3	.9	1.2	.5	.0	.0	.1	2.3	
NW	.8	.0	.0	.1	.3	.5	.1	.0	.1	.0	1.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.3	.0	.1	.1	1.0	1.1	.0	.1	.3	.0	5.0	
TOT OBS	147	4	6	20	120	183	50	11	20	10	315	886
TOT PCT	16.6	.5	.7	2.3	13.5	20.7	5.6	1.2	2.3	1.1	35.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.1	2.9	3.2	3.2	3.2	3.3	3.3	3.3
= OR >5000	2.8	4.3	4.5	4.5	4.5	4.6	4.6	4.6
= OR >3500	5.9	9.6	10.0	10.0	10.0	10.2	10.2	10.2
= OR >2000	15.6	27.7	30.2	30.6	30.6	30.7	30.9	30.9
= OR >1000	19.4	37.6	43.2	44.0	44.0	44.2	44.5	44.5
= OR >600	20.2	39.0	45.2	46.0	46.1	46.4	46.7	46.7
= OR >300	20.2	39.5	46.0	46.7	46.8	47.2	47.5	47.5
= OR >150	20.3	39.7	46.4	47.2	47.3	47.6	47.9	47.9
= OR > 0	20.5	40.4	48.6	50.3	51.3	54.7	61.4	64.3
TOTAL	188	370	445	461	470	501	562	589

TOTAL NUMBER OF OBS: 916

PCT FREQ NM <5/8: 35.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	15.9	3.6	8.1	3.8	3.0	3.2	7.7	7.6	31.9	15.3	1001

JUNE

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1870-1974AREA 0024 SUVA STRAIT W
45.4N 140.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.2	.2	.1	.1	*	.0	*	.0	*	.9	
	NO PCP	.8	.9	1.5	.9	2.3	3.1	1.1	.5	.0	1.2	12.4	
	TOT %	1.1	1.1	1.7	1.0	2.4	3.1	1.1	.5	.0	1.2	13.3	
1/2<1	PCP	.2	.2	.1	.1	.0	.0	.0	*	.0	.0	.6	
	NO PCP	.1	.3	.3	.2	.4	.6	.1	*	.0	.3	2.3	
	TOT %	.3	.5	.4	.3	.4	.6	.1	.1	.0	.3	2.9	
1<2	PCP	*	.2	.3	.1	.2	.1	*	*	.0	*	1.0	
	NO PCP	.1	.2	.3	.1	.5	.7	.3	.3	.0	.2	2.8	
	TOT %	.2	.4	.6	.2	.6	.8	.4	.3	.0	.3	3.8	
2<5	PCP	.1	.6	.7	.3	.3	.3	.1	.0	.0	.2	2.4	
	NO PCP	.3	.8	.9	.4	1.2	1.5	.5	.1	.0	.3	6.0	
	TOT %	.4	1.3	1.5	.8	1.5	1.8	.5	.1	.0	.5	8.4	
5<10	PCP	.3	1.0	.6	.3	.3	.2	.1	.2	.0	.1	3.1	
	NO PCP	2.3	4.6	3.1	1.9	3.1	4.5	1.5	.6	.0	1.7	23.3	
	TOT %	2.5	5.6	3.8	2.3	3.4	4.7	1.6	.8	.0	1.8	26.4	
10+	PCP	.1	.2	.2	*	*	.2	.0	.0	.0	.0	.9	
	NO PCP	3.6	7.3	5.4	4.7	7.4	8.6	2.5	1.6	.0	3.3	44.4	
	TOT %	3.6	7.5	5.6	4.9	7.4	8.8	2.5	1.6	.0	3.3	45.3	
TOT OBS													2173
TOT PCT		8.0	16.3	13.6	9.4	15.8	19.7	6.3	3.4	.0	7.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.3	.2	.3	.2	.3	.5	.5	.2	.0	1.2	3.7	
	4-10	.7	.8	1.1	.7	1.4	1.5	.6	.4	.0		7.3	
	11-21	.3	.2	.5	.3	.5	1.0	.1	.1	.0		3.0	
	22+	.1	.1	*	*	.1	.3	.0	.0	.0		.6	
	TOT %	1.3	1.4	2.0	1.2	2.3	3.3	1.3	.7	.0	1.2	14.7	
1/2<1	0-3	.0	.0	*	.1	.1	*	.0	.0	.0	.2	.5	
	4-10	.2	.2	.1	.2	.3	.5	.1	.1	.0		1.8	
	11-21	.1	.2	.2	*	.1	.1	.0	.0	.0		.8	
	22+	.0	.1	*	*	.0	*	.0	.0	.0		.2	
	TOT %	.3	.5	.4	.4	.5	.7	.1	.1	.0	.2	3.2	
1<2	0-3	.1	*	.0	.0	*	.1	*	.1	.0	.2	.7	
	4-10	.1	.2	.3	.3	.8	.6	.3	.1	.0		2.8	
	11-21	.0	.2	.2	.0	*	.3	.1	.0	.0		.9	
	22+	*	.1	.1	.1	.1	*	*	.0	.0		.4	
	TOT %	.2	.6	.6	.3	.9	1.1	.5	.2	.0	.2	4.7	
2<5	0-3	.2	.2	.1	*	.3	.2	.1	.1	.0	.5	1.7	
	4-10	.4	.6	.6	.6	.8	1.2	.4	.1	.0		4.7	
	11-21	.2	1.3	.8	.3	.6	1.0	.1	.0	.0		4.3	
	22+	*	.1	.3	.1	.1	.1	*	.0	.0		.8	
	TOT %	.8	2.2	1.8	1.0	1.9	2.4	.7	.2	.0	.5	11.5	
5<10	0-3	.4	.4	.2	.2	.5	.4	.2	.2	.0	1.7	4.2	
	4-10	1.3	1.7	1.3	1.0	1.4	2.1	.9	.5	.0		10.2	
	11-21	.6	2.3	1.7	.7	1.0	1.7	.2	.1	.0		8.4	
	22+	.1	.8	.2	.1	.2	.2	.0	.0	.0		1.8	
	TOT %	2.4	5.2	3.4	2.1	3.2	4.4	1.1	.8	.0	1.7	24.6	
10+	0-3	.6	.7	.5	.7	.8	.8	.4	.3	.0	3.2	7.9	
	4-10	1.5	3.3	2.8	2.9	4.4	4.2	1.3	.8	.0		21.2	
	11-21	1.0	2.3	1.5	.7	1.4	2.9	.6	.2	.0		10.5	
	22+	.2	.3	.3	.1	.2	.5	*	.0	.0		1.7	
	TOT %	3.2	6.7	5.1	4.5	6.9	8.3	2.2	1.2	.0	3.2	41.2	
TOT OBS													2216
TOT PCT		8.4	16.5	13.2	9.6	15.7	20.1	6.1	3.3	.0	7.0	100.0	

JUNE

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1870-1974AREA 0024 SOYA STRAIT W
45.4N 140.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	14.8	.7	1.1	2.8	15.5	22.2	5.3	1.1	1.8	1.4	66.5	33.5	284
06009	13.2	.8	.8	2.5	11.2	21.5	5.8	2.9	2.1	1.7	62.4	37.6	242
12015	16.5	.0	.4	.8	13.8	21.5	5.0	.8	2.7	.8	62.1	37.9	261
18021	23.7	.0	.6	3.2	13.5	12.8	6.4	.0	1.9	.0	62.2	37.8	156
TOT	154	4	7	21	128	191	52	12	20	10	599	344	943
PCT	16.3	.4	.7	2.2	13.6	20.3	5.5	1.3	2.1	1.1	63.5	36.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	13.0	2.6	4.7	10.7	23.2	45.8	577
06009	14.4	3.5	3.5	6.3	24.8	47.4	540
12015	14.9	3.0	5.9	13.7	23.4	39.5	730
18021	15.8	3.9	4.9	14.4	25.4	36.0	583
TOT	354	79	112	280	587	1018	2430
PCT	14.6	3.3	4.6	11.5	24.2	41.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	14.5	17.8	28.6	40.9	30.4	276
06009	13.4	15.5	23.4	41.4	35.1	239
12015	17.1	18.7	31.5	35.1	33.3	251
18021	23.3	26.0	34.7	29.3	36.0	150
TOT	150	172	266	344	306	916
PCT	16.4	18.8	29.0	37.6	33.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.7	.0	.0	.0	.0	.0	1	.7
60/64	.0	.0	.0	.0	.0	.7	.7	1.5	4	2.9
55/59	.0	.0	.7	.0	.7	2.2	4.4	6.6	20	14.6
50/54	.0	.0	.0	.7	.0	.7	16.8	21.2	34	39.4
45/49	.0	.0	.0	.0	9.2	3.6	7.3	19.7	45	32.8
40/44	.0	.0	.0	.0	.0	.0	2.9	6.6	13	9.5
TOTAL	0	0	2	1	4	10	44	76	137	100.0
PCT	.0	.0	1.5	.7	2.9	7.3	32.1	55.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.5	.2	.0	.0	.0	.0	.0	.0
.7	.0	.0	.0	1.3	.9	.0	.0	.0	.0
.5	1.6	4.2	1.6	4.0	1.1	1.5	.0	.0	.0
.7	6.6	5.1	3.3	9.5	6.4	4.0	2.4	.0	1.5
2.9	8.9	5.5	4.0	2.6	4.6	1.3	1.6	.0	1.5
.7	4.6	1.3	.0	.7	.0	.7	.0	.0	1.5
5.7	21.7	16.6	9.1	18.1	13.0	7.5	4.0	.0	4.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	68	64	54	44	40	34	54.2	583
06009	77	72	65	54	45	40	34	54.5	533
12015	69	65	61	52	44	39	34	52.6	736
18021	66	63	59	52	43	39	38	51.5	589
TOT	77	68	63	54	44	39	34	53.1	2441

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.3	2.2	10.9	41.3	41.3	85	46		
06009	.0	.0	2.9	5.7	37.1	54.3	89	35		
12015	.0	3.4	3.4	.0	27.6	65.5	89	29		
18021	.0	.0	3.3	10.0	20.0	66.7	90	30		
TOT	0	3	4	10	46	77	88	140		

JUNE

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1870-1974

TABLE 17

AREA 0024 SOYA STRAIT W
45.4N 140.6EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT FOG	W FOG	NO FOG
23/25	.0	.0	.0	.0	.0	.1	.0	*	.0	*	*	*	5	*	.2
20/22	.0	.0	.0	.0	.0	.2	.1	*	.0	*	.0	.0	9	*	.4
17/19	.0	.0	.0	.0	.0	*	.0	.2	.1	.1	.0	*	12	.1	.5
14/16	.0	.0	.0	.0	.1	.1	.4	.7	.1	.0	.0	.0	29	.2	1.2
11/13	.0	.0	.0	.1	.4	.7	1.0	.9	.6	*	*	.0	81	.6	3.2
9/10	.0	.0	.0	.2	.4	.6	.9	.3	.2	*	.0	.0	60	.8	2.0
7/8	.0	.0	.0	.4	.6	1.5	1.1	1.1	.1	.1	.0	.0	105	.9	3.9
6	.0	.0	*	.2	.5	.5	.7	.3	.0	.0	.0	.0	48	.6	1.7
5	.0	.0	.1	.7	1.6	1.7	1.6	1.4	.2	.0	.0	.0	158	2.3	5.1
4	.0	.0	.1	1.3	2.3	2.9	3.8	1.6	.2	.0	.0	.0	264	3.7	8.6
3	.0	.0	.3	.3	.8	1.0	.3	*	.0	.0	.0	.0	61	.6	2.2
2	.0	*	.3	2.6	3.6	5.3	3.2	1.0	*	.0	.0	.0	347	4.1	12.0
1	.0	.0	.4	.5	.9	.9	.3	.0	.0	.0	.0	.0	65	.6	2.5
0	*	.1	.4	3.5	4.7	5.5	2.5	.7	.0	.0	.0	.0	377	5.1	12.5
-1	.0	.0	.2	.3	.5	.3	.3	.0	.0	.0	.0	.0	35	.2	1.4
-2	.0	.2	1.0	3.6	2.3	2.6	.7	*	.0	.0	.0	.0	225	1.9	8.6
-3	.0	.1	.2	.4	.7	.2	.0	.0	.0	.0	.0	.0	34	.3	1.3
-4	*	*	.6	2.2	.9	.7	.3	.1	.0	.0	.0	.0	106	1.3	3.6
-5	*	*	.4	1.3	.9	.1	.0	.0	.0	.0	.0	.0	60	.8	2.0
-6	.0	.0	.1	*	.1	.0	*	.0	.0	.0	.0	.0	7	*	.3
-7/-8	.0	.0	*	.7	.4	.2	.0	.0	.0	.0	.0	.0	30	.3	1.1
-9/-10	.0	*	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	15	.2	.5
-11/-13	.0	.1	*	.1	.1	.1	.0	.0	.0	.0	.0	.0	11	.2	.3
-14/-16	.0	*	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	7	.0	.3
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	3	18	97	406	474	544	378	184	35	9	2	2	2152	537	1615
PCT	.1	.8	4.5	18.9	22.0	25.3	17.6	8.6	1.6	.4	.1	.1	100.0	25.0	75.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	1.7	.2	.0	.0	.0	2.0	.6	3.2	.2	.0	.0	.0	4.0
1-2	.0	1.5	1.1	.0	.0	.0	2.6	.0	1.6	2.0	.0	.0	.0	3.7
3-4	.0	.5	.6	.0	.0	.0	1.1	.0	.2	3.0	.3	.0	.0	3.5
5-6	.0	.0	.4	.3	.0	.0	.6	.0	.1	2.1	.6	.1	.0	3.0
7	.0	.0	.1	.1	.0	.0	.2	.0	.0	1.0	.6	.0	.0	1.7
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.7	2.6	.4	.0	.0	6.8	.6	5.2	6.6	2.7	.3	.0	17.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	1.8	.2	.0	.0	.0	2.3	.5	1.8	.3	.0	.0	.0	2.6
1-2	.1	1.8	1.9	.0	.0	.0	3.8	.0	2.0	1.8	.0	.0	.0	3.8
3-4	.0	.5	1.5	.1	.0	.0	2.0	.0	.2	1.2	.1	.0	.0	1.6
5-6	.0	.1	.9	.8	.1	.0	2.0	.0	.1	.6	.0	.0	.0	.7
7	.0	.0	.7	.1	.1	.0	.9	.0	.0	.2	.3	.0	.0	.5
8-9	.0	.0	.6	.3	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.1	5.8	1.7	.3	.0	12.3	.5	4.2	4.0	.6	.0	.0	9.3

PERIOD: (OVER-ALL) 1963-1974

JUNE

AREA 0024 SDYA STRAIT W
45.4N 140.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	3.7	.2	.0	.0	.0		4.5	.6	2.7	*	.0	.0	.0		3.3
1-2	.4	4.3	2.1	.0	.0	.0		6.9	.1	2.2	2.8	.0	.0	.0		5.1
3-4	.0	.6	2.2	.0	.0	.0		2.9	.0	.5	3.7	.3	.0	.0		4.5
5-6	.0	.1	1.4	.2	.0	.0		1.8	.0	.1	1.6	.4	.0	.0		2.1
7	.0	.1	.8	.1	.0	.0		1.1	.0	.0	.7	.1	.0	.0		.9
8-9	.0	.1	.1	.0	.0	.0		.2	.0	*	.0	*	.1	.0		.2
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.1	.0		.1	.1	.0	.0	.0	.0	.0		.1
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.0	9.0	7.0	.4	.1	.0		17.5	.9	5.5	8.9	.8	.1	.0		16.3

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	1.8	.1	.0	.0	.0		2.2	.0	.6	.0	.0	.0	.0		.6
1-2	.1	1.4	.7	.0	.0	.0		2.2	.1	.6	.6	.0	.0	.0		1.3
3-4	.0	.1	.6	.0	.0	.0		.7	.0	.0	.0	.0	.0	.0		.0
5-6	.0	.1	.1	.0	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
7	.0	.1	.1	.0	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	3.6	1.7	.1	.0	.0		5.8	.1	1.2	.6	.0	.0	.0		87.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.7	17.3	1.4	.0	.0	.0	34.4	
1-2	1.0	15.3	13.1	.0	.0	.0	29.4	
3-4	.0	2.7	12.8	.8	.0	.0	16.3	
5-6	.0	.8	7.2	2.2	.3	.0	10.5	
7	.0	.3	3.7	1.4	.1	.0	5.5	
8-9	.0	.1	.8	1.1	.1	.0	2.2	
10-11	.0	.0	.0	.8	.1	.0	1.1	
12	.1	.0	.0	.0	.1	.0	.3	
13-16	.0	.0	.1	.1	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	16.9	36.5	39.2	6.6	.8	.0	100.0	712

PERIOD: (OVER-ALL) 1959-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	19.2	12.1	6.2	2.8	.7	.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	387	3
6-7	.1	1.9	3.5	2.7	2.4	1.1	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	112	5
8-9	.0	.1	.8	.8	.8	.6	.8	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	7
10-11	.0	1.1	.2	.2	.3	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	4
12-13	.0	.0	.6	.2	.1	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
>13	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
INDT	16.9	9.0	5.9	2.1	1.6	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	325	2
TOTAL	166	281	207	111	73	28	16	6	8	2	0	0	0	0	0	0	0	0	0	898	3
PCT	18.5	31.3	23.1	12.4	8.1	3.1	1.8	.7	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1877-1974AREA 0024 SOVA STRAIT W
45.4N 140.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	3.3	.6	1.6	.0	.0	.0	.0	5.5	.6	.0	17.0	.0	.0	.0	76.8
NE	6.2	.1	3.6	.0	.0	.0	.0	9.8	1.7	.3	18.5	1.0	.0	.0	69.0
E	13.3	.0	3.9	.0	.0	.0	.0	17.2	1.1	.0	23.8	.8	.7	.0	56.5
SE	10.3	.0	3.0	.0	.0	.0	.0	13.3	1.1	.0	25.5	.1	1.0	.0	58.9
S	7.5	.7	2.6	.0	.0	.0	.0	10.8	.9	.0	36.8	.6	.3	.0	50.6
SW	5.2	.5	.9	.0	.0	.0	.0	6.6	.3	.2	36.0	.3	.4	.2	56.1
W	2.0	.0	2.8	.0	.0	.0	.0	4.8	.8	.0	28.3	1.6	.6	.0	63.9
NW	8.7	.0	3.6	.0	.0	.0	.0	12.3	1.4	.0	18.8	.0	.0	.0	67.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	.0	.9	.0	.0	.0	.0	1.8	.0	.0	34.5	.9	.0	.9	61.8
TOT PCT	7.0	.3	2.5	.0	.0	.0	.0	9.8	.9	.1	28.6	.6	.4	.1	59.6
TOT OBS:	2166														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	6.1	.6	2.6	.0	.0	.0	.0	9.5	1.4	.2	29.2	.8	.6	.2	58.4
06009	7.1	.0	1.9	.0	.0	.0	.0	9.0	.6	.0	27.8	.6	.2	.2	61.7
12015	5.8	.2	3.1	.0	.0	.0	.0	9.0	.9	.2	27.9	.8	.5	.0	60.7
18021	9.1	.4	2.1	.0	.0	.0	.0	11.6	.8	.0	29.5	.2	.2	.0	57.8
TOT PCT TOT OBS:	7.0 2207	.3	2.5	.0	.0	.0	.0	9.7	.9	.1	28.5	.6	.4	.1	59.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	3.1	1.3	.3	.0	.0		5.7	8.6		6.6	8.0	5.4	6.4	5.9	5.5	3.0	4.4
NE	1.1	6.5	6.3	.6	*	.0		14.5	11.1		16.2	12.2	16.7	9.7	17.2	13.1	22.5	13.5
E	1.0	6.8	4.5	.7	.0	.0		13.0	10.7		15.4	9.2	15.1	15.0	14.1	11.9	10.0	13.6
SE	1.2	6.3	2.2	.3	.0	.0		10.0	8.7		8.1	10.6	8.5	10.5	10.3	11.8	9.3	9.5
S	1.9	11.0	4.8	.4	.0	.0		18.2	8.9		17.3	19.6	15.2	17.1	14.0	18.3	17.4	23.5
SW	1.6	12.8	9.3	.5	*	.0		24.2	10.1		21.8	26.5	23.7	28.9	19.6	22.8	21.6	26.5
W	.8	3.9	1.1	.1	.0	.0		5.9	8.0		5.4	7.1	4.3	7.9	5.4	8.3	3.6	3.3
NW	.4	2.3	.5	.2	.0	.0		3.3	7.8		3.3	2.7	3.5	2.4	3.7	3.6	4.6	3.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.2							5.2	.0		5.9	4.2	7.7	2.2	9.9	4.6	8.1	2.4
TOT OBS	329	1208	687	71	2	0	2297		9.2		238	283	209	321	263	411	197	375
TOT PCT	14.3	52.6	29.9	3.1	.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	3.0	1.9	.7	.1	.0			5.7	8.6		7.3	6.0	5.6	3.9
NE	3.9	7.8	2.6	.2	.0			14.5	11.1		14.0	12.5	14.7	16.6
E	4.1	6.3	2.4	.2	.0			13.0	10.7		12.0	15.0	12.8	12.4
SE	4.1	5.0	.8	.1	.0			10.0	8.7		9.5	9.7	11.2	9.4
S	6.9	9.6	1.5	.1	.0			18.2	8.9		18.6	16.3	16.6	21.4
SW	7.8	12.5	3.8	.1	.0			24.2	10.1		24.4	26.8	21.6	24.8
W	2.9	2.5	.5	.0	.0			5.9	8.0		6.3	6.5	7.2	3.4
NW	1.9	1.1	.2	*	.0			3.3	7.8		2.9	2.8	3.7	3.8
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	5.2							5.2	.0		5.0	4.3	6.7	4.4
TOT OBS	916	1076	287	18	0	2297			9.2		521	530	674	572
TOT PCT	39.9	46.8	12.5	.8	.0			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1877-1974

JULY

AREA 0024 SOYA STRAIT W
45.4N 140.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00603	5.0	6.7	52.4	32.2	3.6	.0	.0	.0	9.6	100.0	521
06609	4.3	10.0	48.5	34.5	2.6	.0	.0	.0	9.5	100.0	530
12615	6.7	9.5	54.9	25.2	3.7	.0	.0	.0	8.7	100.0	674
18621	4.4	10.1	53.8	29.0	2.3	.3	.0	.0	8.9	100.0	572
TOT	119	210	1208	687	71	2	0	0	9.2		2297
PCT	5.2	9.1	52.6	29.9	3.1	.1	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL	MEAN CLOUD COVER
N	.7	.0	1.9	3.0		6.6
NE	1.9	.9	3.7	10.4		6.6
E	1.2	.3	2.8	10.0		6.9
SE	1.2	.9	1.5	6.2		6.5
S	1.4	1.1	2.3	11.1		6.8
SW	3.2	1.9	3.5	12.2		6.2
W	.3	.3	1.3	3.2		6.8
NW	.2	.5	1.2	2.1		6.4
VAR	.0	.0	.0	.0		.0
CALM	1.5	.9	1.1	4.9		5.7
TOT OBS	90	55	154	497	796	6.5
TUT PCT	11.3	6.9	19.3	62.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	1.2	.0	.0	.5	.4	1.9	.3	.1	.0	.1	1.1	
NE	3.2	.0	.3	.4	3.2	4.8	1.4	.0	.1	.0	3.4	
E	3.1	.2	.3	.8	2.3	4.4	.8	.0	.0	.0	2.3	
SE	1.8	.*	.2	.3	2.2	1.9	.4	.1	.2	.1	2.6	
S	5.5	.1	.1	.5	2.8	2.8	.3	.2	.3	.1	2.9	
SW	6.0	.0	.3	.3	2.7	2.4	.8	.4	1.0	.6	6.3	
W	1.2	.0	.0	.1	1.4	1.1	.5	.1	.0	.0	.8	
NW	.4	.0	.0	.1	.5	1.2	.5	.0	.0	.1	1.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.1	.0	.1	.0	1.0	1.4	.6	.0	.1	.0	2.4	
TOT OBS	196	3	10	24	131	175	46	8	14	9	796	
TUT PCT	24.6	.4	1.3	3.0	16.5	22.0	5.8	1.0	1.8	1.1	22.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.1	2.9	2.9	2.9	2.9	2.9	2.9	2.9
= OR >5000	2.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8
= OR >3500	5.1	8.9	9.7	9.7	9.7	9.7	9.7	9.7
= OR >2000	15.1	27.1	30.1	30.9	31.1	31.1	31.1	31.2
= OR >1000	20.2	39.0	44.6	46.0	47.3	47.7	47.7	47.8
= OR >600	21.2	40.8	47.0	48.8	50.2	50.6	50.6	50.7
= OR >300	21.4	41.4	47.7	50.1	51.5	51.9	51.9	52.0
= OR >150	21.4	41.6	48.0	50.3	51.9	52.3	52.3	52.4
= OR > 0	21.4	42.0	49.1	52.5	55.1	61.8	73.9	77.0
TOTAL	173	339	396	424	445	499	596	621

TOTAL NUMBER OF OBS: 807

PCT FREQ NH <5/8: 23.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.7	3.2	5.2	4.2	2.8	3.7	6.2	7.0	37.5	23.4	866

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1877-1974

JULY

AREA 0024 SOVA STRAIT W
45.4N 140.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.2	.3	.2	.3	.5	.0	.2	.0	.0	1.7	
	NO PCP	.5	1.7	1.6	1.3	3.7	5.1	1.0	.4	.0	1.1	18.5	
	TOT %	.6	1.9	1.9	1.4	4.0	5.7	1.0	.6	.0	1.1	18.2	
1/2<1	PCP	.0	.2	.2	.1	.3	.2	.0	.0	.0	.1	1.1	
	NO PCP	.1	.3	.4	.3	.7	.8	.1	.0	.0	.1	2.7	
	TOT %	.1	.5	.6	.4	.9	1.0	.1	.0	.0	.2	3.7	
1<2	PCP	.0	.1	.4	.3	.3	.2	.1	.0	.0	.0	1.4	
	NO PCP	.1	.2	.5	.4	.9	.6	.2	.1	.0	.1	3.2	
	TOT %	.2	.4	.9	.7	1.2	.8	.3	.1	.0	.1	4.6	
2<5	PCP	.0	.3	.5	.3	.5	.4	.1	.0	.0	.0	2.2	
	NO PCP	.2	.7	.8	.5	1.1	1.0	.3	.2	.0	.4	5.3	
	TOT %	.2	1.1	1.3	.8	1.6	1.4	.4	.2	.0	.4	7.5	
5<10	PCP	.2	.5	1.0	.4	.3	.2	.0	.2	.0	.0	2.8	
	NO PCP	.8	2.9	3.2	2.2	3.4	5.2	1.5	.8	.0	1.4	21.4	
	TOT %	1.0	3.4	4.2	2.6	3.7	5.5	1.5	1.0	.0	1.4	24.2	
10+	PCP	.0	.1	.0	.1	.4	.0	.0	.0	.0	.0	.7	
	NO PCP	3.7	8.0	5.1	4.1	6.5	8.3	2.4	1.3	.0	1.9	41.1	
	TOT %	3.7	8.1	5.2	4.2	6.9	8.3	2.4	1.3	.0	1.9	41.8	
TOT OBS													2142
TOT PCT													5.7 15.3 14.0 10.0 18.3 22.6 5.8 3.2 .0 5.0 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.2	.3	.1	.3	.3	.2	.1	.0	.0	.9	2.4		
	4-10	.2	1.0	.9	.9	2.3	3.3	.8	.5	.0	.0	10.0		
	11-21	.1	.6	.6	.3	1.1	3.2	.3	.1	.0	.0	6.2		
	22+	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.3		
	TOT %	.5	2.0	1.6	1.5	3.9	6.8	1.2	.6	.0	.9	18.9		
1/2<1	0-3	.0	.1	.1	.0	.2	.1	.0	.0	.0	.2	.6		
	4-10	.1	.1	.3	.3	.6	.8	.1	.1	.0	.0	2.4		
	11-21	.0	.3	.1	.1	.1	.2	.0	.0	.0	.0	.8		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1		
	TOT %	.1	.5	.5	.4	.9	1.1	.2	.1	.0	.2	3.9		
1<2	0-3	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.4		
	4-10	.2	.2	.7	.4	.9	.5	.2	.1	.0	.0	3.3		
	11-21	.0	.2	.3	.4	.3	.4	.1	.0	.0	.0	1.7		
	22+	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.4		
	TOT %	.3	.6	1.0	.8	1.3	1.1	.3	.2	.0	.1	5.8		
2<5	0-3	.0	.1	.2	.0	.2	.0	.0	.1	.0	.6	1.4		
	4-10	.2	.5	.9	.8	1.5	1.3	.7	.3	.0	.0	6.3		
	11-21	.1	.9	.4	.2	.6	1.0	.1	.0	.0	.0	3.3		
	22+	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0	.5		
	TOT %	.4	1.6	1.6	1.1	2.4	2.4	.8	.5	.0	.6	11.4		
5<10	0-3	.1	.1	.3	.4	.2	.3	.2	.1	.0	1.3	3.1		
	4-10	.5	1.3	1.5	1.5	1.9	2.5	.7	.6	.0	.0	10.4		
	11-21	.2	1.4	1.6	.5	1.2	2.1	.4	.1	.0	.0	7.5		
	22+	.0	.1	.1	.0	.1	.2	.0	.0	.0	.0	.8		
	TOT %	.9	3.0	3.6	2.3	3.4	5.1	1.2	.9	.0	1.3	21.7		
10+	0-3	.6	.4	.4	.5	.9	.8	.5	.2	.0	1.7	.0		
	4-10	1.9	3.5	2.6	2.4	3.8	4.4	1.4	.7	.0	.0	20.7		
	11-21	1.0	3.1	1.4	.8	1.5	2.3	.3	.3	.0	.0	10.7		
	22+	.1	.2	.3	.2	.0	.1	.1	.1	.0	.0	1.0		
	TOT %	3.5	7.2	4.7	4.0	6.2	7.6	2.3	1.2	.0	1.7	38.3		
TOT OBS														2208
TOT PCT														5.7 14.8 13.0 10.1 18.2 24.1 6.0 3.4 .0 4.7 100.0

JULY

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1877-1974

AREA 0024 SOYA STRAIT W
45.4N 140.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	180 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	23.5	.4	2.1	3.4	17.2	24.4	7.1	1.7	1.7	.8	82.4	17.6	238
06009	22.3	.5	.9	3.2	16.4	20.0	4.5	.9	2.7	.9	72.3	27.7	220
12015	26.6	.4	.8	2.5	17.3	20.3	5.9	.8	.8	1.3	76.8	23.2	237
18021	28.6	.0	1.5	2.3	13.5	21.1	4.5	.0	1.5	2.3	73.2	24.8	133
TOT	206	3	11	24	136	178	47	8	14	10	637	191	828
PCT	24.9	.4	1.3	2.9	16.4	21.5	5.7	1.0	1.7	1.2	76.9	23.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	19.6	3.5	4.7	13.5	21.3	37.5	950
06009	16.4	4.6	5.8	9.2	22.2	42.2	567
12015	19.4	3.1	6.8	11.4	21.6	38.0	708
18021	21.9	4.4	5.8	11.2	22.4	34.4	590
TOT	467	93	137	273	528	917	2415
PCT	19.3	3.9	5.7	11.3	21.9	38.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	23.9	30.3	45.0	39.1	16.0	238
06009	21.0	22.9	34.1	40.7	25.2	214
12015	26.1	29.2	39.8	38.9	21.2	226
18021	29.5	32.6	41.9	36.4	21.7	129
TOT	199	229	324	315	168	807
PCT	24.7	28.4	40.1	39.0	20.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	2.0	.0	.0	2	2.0
65/69	.0	.0	.0	.0	.0	1.0	6.9	3.0	11	10.9
60/64	.0	.0	.0	.0	.0	3.0	10.9	23.8	38	37.6
55/59	.0	.0	.0	.0	.0	5.0	7.9	23.8	37	36.6
50/54	.0	.0	.0	.0	.0	3.0	5.0	2.0	10	9.9
45/49	.0	.0	.0	.0	.0	1.0	.0	2.0	3	3.0
TOTAL	0	0	0	0	0	15	31	55	101	100.0
PCT	.0	.0	.0	.0	.0	14.9	30.7	54.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0
.0	.0	.0	.0	.0	3.2	6.7	.7	.2	.0	.0
.7	1.0	1.0	4.2	9.4	18.1	.0	1.2	.0	.0	2.0
5.9	8.9	5.9	4.0	4.2	5.2	.7	.7	.0	.0	1.0
.0	3.2	2.5	2.2	1.0	1.0	.0	.0	.0	.0	.0
.0	.0	.0	.2	.7	.0	1.0	.0	.0	.0	1.0
6.7	13.1	9.4	10.6	19.6	30.9	3.5	2.2	.0	.0	4.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	82	77	73	61	52	48	46	61.9	559
06009	81	77	72	62	50	46	41	61.8	568
12015	79	75	70	61	50	46	41	60.3	730
18021	79	75	70	61	50	46	41	60.1	597
TOT	82	77	72	61	51	46	41	61.0	2454

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	17.4	34.8	47.8	88	23
06009	.0	.0	.0	22.6	38.7	38.7	86	31
12015	.0	.0	.0	3.4	24.1	72.4	92	29
18021	.0	.0	.0	15.8	21.1	63.2	91	19
TOT	0	0	0	15	31	56	89	102

JULY

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1877-1974

TABLE 17

AREA 0024 SOYA STRAIT W
43.4N 140.7EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	3	*	.1
17/19	.0	.0	.0	.0	.0	.0	.2	.1	.1	.0	.0	9	*	.4
14/16	.0	.0	.0	.1	.2	.1	.2	.1	.0	.1	.0	17	.2	.6
11/13	.0	.0	.1	.1	.2	.7	.3	.5	.1	.3	*	48	.8	1.5
9/10	.0	.0	.0	.1	.2	.7	.9	.4	.3	*	.1	58	.8	2.0
7/8	.0	.0	.1	.3	.6	1.5	.5	.4	.2	.1	.0	76	1.1	2.5
6	.0	.0	.0	.1	.3	.4	.2	.1	.1	.0	*	26	.3	1.0
5	.0	.1	.3	.5	1.0	2.3	1.6	.9	.3	.1	.0	150	2.4	4.7
4	.0	.1	.2	.6	1.5	4.3	2.7	1.5	.2	.0	.0	231	3.5	7.5
3	.0	.1	.2	.7	.5	.4	.1	.0	.0	.0	.0	44	.5	1.6
2	.0	.3	.5	1.6	3.5	7.3	4.0	.9	.4	.0	.0	387	6.2	12.3
1	.0	.1	.5	1.4	1.2	.1	.0	.0	.0	.0	.0	71	.6	2.8
0	.1	.7	2.7	3.8	8.6	2.3	.8	*	.0	.0	.0	404	6.1	13.2
-1	.0	.0	.8	.9	.4	.3	.0	.0	.0	.0	.0	51	.7	1.8
-2	.0	.2	1.9	2.9	2.7	2.9	.7	.2	.0	.0	.0	239	2.4	9.0
-3	.0	.1	.8	.7	.4	.1	.0	.0	.0	.0	.0	43	.6	1.4
-4	.0	.2	.7	1.6	1.7	1.1	.4	.0	.0	.0	.0	119	1.1	4.6
-5	.0	.2	.3	.7	.4	.4	.0	.0	.0	.0	.0	43	.5	1.6
-6	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	6	*	.2
-7/-8	.0	.1	.3	.9	.5	.1	*	.0	.0	.0	.0	40	.4	1.5
-9/-10	.0	.2	.3	.1	.0	*	.0	.0	.0	.0	.0	13	.3	.3
-11/-13	.0	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	11	.1	.4
-14/-16	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	4	.0	.2
TOTAL	3	45	121	309	425	690	314	127	38	14	7	2093	605	1488
PCT	.1	2.2	9.8	14.8	20.3	33.0	15.0	6.1	1.8	.7	.3	100.0	28.9	71.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	.4	.0	.0	.0	.0	.9	.4	1.4	.2	.0	.0	.0	2.0
1-2	.0	1.1	.6	.0	.0	.0	1.7	.0	3.0	3.3	.0	.0	.0	6.2
3-4	.0	.6	1.3	.2	.0	.0	2.1	.0	.8	2.7	.0	.0	.0	3.4
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.4	2.9	.4	.0	.0	3.7
7	.0	.0	.3	.2	.0	.0	.5	.0	.0	1.7	.2	.0	.0	1.9
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	.0	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.2	2.9	.5	.0	.0	6.0	.4	5.7	11.6	.8	.0	.0	18.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	1.4	.0	.0	.0	.0	1.9	.2	1.3	.0	.0	.0	.0	1.5
1-2	.0	2.7	2.2	.0	.0	.0	5.0	.2	2.6	1.3	.0	.0	.0	4.1
3-4	.0	1.0	1.9	.4	.0	.0	3.2	.0	.3	1.4	.0	.0	.0	1.6
5-6	.0	.1	2.1	.5	.0	.0	2.7	.0	.0	.6	.2	.0	.0	.8
7	.0	.2	.8	.5	.0	.0	1.5	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.1	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.2
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.6	7.2	1.4	.0	.0	14.6	.4	4.6	3.3	.6	.0	.0	8.8

PERIOD: (OVER-ALL) 1963-1974

JULY

AREA 0024 SOYA STRAIT W
43.4N 140.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	2.1	.0	.0	.0	.0		2.4	.6	3.4	.2	.0	.0	.0		4.2
1-2	.2	3.8	7.9	.0	.0	.0		6.8	.0	3.1	2.4	.0	.0	.0		5.6
3-4	.0	.4	1.6	.2	.0	.0		2.3	.0	1.1	4.0	.2	.0	.0		5.3
5-6	.0	.5	1.0	.1	.0	.0		1.6	.0	.2	3.3	.2	.0	.0		3.7
7	.0	.2	.3	.1	.0	.0		.6	.0	.0	.9	.2	.0	.0		1.1
8-9	.0	.2	.0	.0	.0	.0		.2	.0	.0	.2	.0	.0	.0		.2
10-11	.0	.0	.1	.0	.0	.0		.1	.0	.0	.2	.0	.0	.0		.2
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.5	7.2	5.9	.4	.0	.0		14.0	.6	7.8	11.2	.6	.0	.0		20.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.5	.0	.0	.0	.0		.5	.2	.5	.0	.0	.0	.0		.7	
1-2	.2	1.6	.4	.0	.0	.0		2.2	.2	1.3	.4	.0	.0	.0		1.9	
3-4	.0	.6	.4	.0	.0	.0		1.0	.0	.2	.6	.2	.0	.0		.9	
5-6	.0	.0	.3	.0	.0	.0		.3	.0	.0	.2	.0	.0	.0		.2	
7	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	2.7	1.0	.3	.0	.0		4.2	.4	2.0	1.1	.2	.0	.0		3.7	90.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.5	11.1	.4	.0	.0	.0	24.0	
1-2	.7	19.3	13.4	.0	.0	.0	33.4	
3-4	.0	4.9	13.8	1.1	.0	.0	19.8	
5-6	.0	1.2	10.8	1.4	.0	.0	13.4	
7	.0	.4	4.1	1.6	.0	.0	6.0	
8-9	.0	.5	.7	.0	.0	.0	1.2	
10-11	.0	.2	1.1	.2	.0	.0	1.4	
12	.0	.2	.0	.2	.0	.0	.4	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.3	37.8	44.2	4.8	.0	.0	100.0	566

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	20.1	16.0	6.5	2.2	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	372	3
6-7	.0	1.3	2.9	2.8	2.2	1.0	.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	5
8-9	.1	.4	.9	.9	.8	.4	.4	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	6
10-11	.0	1.2	.4	.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	4
12-13	.0	.0	.5	.5	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	5
>13	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
INDET	11.1	11.3	4.7	2.7	2.2	.3	.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	259	2
TOTAL	101	267	199	109	61	20	12	5	6	1	0	0	0	0	0	0	0	0	0	781	3
PCT	12.9	34.2	25.5	14.0	7.8	2.6	1.5	.6	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1933-1974
(OVER-ALL) 1870-1974

AUGUST

AREA 0024 SOVA STRAIT W
43.3N 140.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	10.1	.6	1.5	.0	.0	.0	.0	12.1	.9	.0	7.2	.0	.6	.0	79.1
NE	11.5	.3	4.4	.0	.0	.0	.0	15.9	1.3	.0	6.1	.3	.0	.0	76.4
E	13.6	.0	4.8	.0	.0	.0	.0	18.2	1.4	.2	4.3	.0	.0	.0	75.9
SE	10.6	.6	4.9	.0	.0	.0	.0	15.8	.8	.3	9.1	.7	.0	.0	73.4
S	7.5	.9	1.5	.0	.0	.0	.0	9.8	.7	.0	15.6	.2	.3	.3	73.0
SW	5.4	.2	1.5	.0	.0	.0	.0	7.1	.3	.5	16.3	.5	.3	.2	75.0
W	3.3	.0	.9	.0	.0	.0	.0	4.2	.0	.0	7.4	.0	.4	.0	87.9
NW	4.6	.9	2.3	.0	.0	.0	.0	7.9	.2	.0	5.8	.0	.0	.0	86.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2	.0	1.1	.0	.0	.0	.0	3.3	.0	.0	14.3	.0	.0	.0	82.4
TOT PCT	8.2	.4	2.6	.0	.0	.0	.0	11.1	.7	.1	10.4	.2	.2	.1	77.2
TOT OBS:	2067														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	8.0	.4	2.1	.0	.0	.0	.0	10.4	.8	.0	11.7	.4	.0	.2	76.5
0600	8.3	.4	2.3	.0	.0	.0	.0	11.0	.6	.2	11.8	.2	.4	.0	75.9
1200	6.6	.2	2.8	.0	.0	.0	.0	9.4	.2	.2	6.6	.2	.4	.2	82.9
1800	9.6	.6	3.3	.0	.0	.0	.0	13.3	1.6	.2	11.1	.2	.2	.0	73.7
TOT PCT TOT OBS:	8.1 2104	.4	2.6	.0	.0	.0	.0	11.0	.8	.1	10.3	.2	.2	.1	77.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.2	4.4	1.9	.4	*	.0		7.9	9.2	8.3	11.1	10.0	6.3	7.5	8.4	7.1	5.5
NE	1.3	7.2	5.7	2.2	.2	.0		16.6	12.3	22.0	12.8	18.4	14.5	15.2	16.6	21.0	15.5
E	.7	6.6	4.6	1.1	.1	.0		13.0	11.3	13.3	10.8	12.7	11.1	15.1	11.7	16.0	15.2
SE	.8	4.8	2.4	.2	*	.0		8.2	9.2	8.1	7.6	7.6	9.4	8.6	8.3	6.0	8.9
S	1.4	8.7	4.2	.8	.0	.0		16.1	10.1	12.5	18.1	17.5	15.8	13.8	16.2	11.7	19.8
SW	1.8	11.2	7.4	1.3	.0	.0		21.7	10.6	19.3	27.1	15.2	26.0	20.5	22.0	17.3	21.2
W	.8	4.3	2.2	.4	.1	.0		7.8	9.8	4.0	5.6	5.4	10.4	8.0	9.8	9.1	8.1
NW	.6	3.2	1.1	.1	.0	.0		5.0	8.7	6.7	5.5	3.0	5.6	4.5	5.7	4.6	4.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7							3.7	.0	5.8	1.3	10.1	.9	6.8	1.3	7.2	1.6
TOT OBS	271	1126	678	145	10	0	2231		10.1	242	301	207	323	219	380	195	364
TOT PCT	12.1	50.5	30.4	6.5	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	3.3	3.5	.9	.2	.0		7.9	9.2	9.9	7.8	8.1	6.0	
NE	4.6	7.2	4.1	.7	.0		16.6	12.3	16.9	16.0	16.1	17.4	
E	3.9	6.5	2.4	.3	.0		13.0	11.3	11.9	11.7	12.9	15.5	
SE	3.7	3.5	.9	.1	.0		8.2	9.2	7.8	8.7	8.4	7.9	
S	5.5	8.2	2.1	.3	.0		16.1	10.1	15.6	16.5	15.3	16.9	
SW	6.9	10.5	4.1	.2	.0		21.7	10.6	23.6	21.8	21.5	19.8	
W	3.0	3.6	1.0	.2	.0		7.8	9.8	4.9	8.4	9.1	8.5	
NW	2.3	2.2	.6	.0	.0		5.0	8.7	6.0	4.6	5.2	4.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.7						3.7	.0	3.3	4.5	3.3	2.6	
TOT OBS	824	1007	356	44	0	2231		10.1	543	530	599	539	
TOT PCT	36.9	45.1	16.0	2.0	.0		100.0		100.0	100.0	100.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1870-1974AREA 0024 SOYA STRAIT W
45.3N 140.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	3.3	8.8	48.1	33.5	5.7	.6	.0	.0	10.5	100.0	543
06009	4.5	8.5	46.8	31.5	7.9	.8	.0	.0	10.6	100.0	520
12015	3.3	7.5	54.3	29.0	5.7	.2	.0	.0	9.6	100.0	599
18021	3.6	9.1	52.2	27.9	6.8	.4	.0	.0	9.7	100.0	559
TOT	82	189	1126	679	145	10	0	10.1			2231
PCT	3.7	8.5	50.5	30.4	6.5	.4	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.8	1.1	2.5	3.1		5.3
NE	2.8	1.4	6.3	8.2		5.9
E	1.9	1.6	3.2	6.1		5.9
SE	.8	.4	1.0	4.3		6.5
S	2.0	1.9	3.7	7.4		5.9
SW	3.7	1.6	3.1	8.6		5.7
W	2.7	1.1	1.6	1.7		4.1
NW	1.9	.7	1.4	.8		3.7
VAR	.0	.0	.0	.0		.0
CALM	2.9	1.5	2.6	2.8		4.7
TOT OBS	141	74	175	297	687	5.5
TOT PCT	20.5	10.8	25.5	43.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.1	.0	.0	.3	1.2	1.3	.4	.0	.2	.1	3.9	
NE	1.1	.0	.1	.6	3.6	4.7	1.7	.4	.7	.6	5.3	
E	1.3	.0	.0	.5	1.9	3.2	.8	.6	.6	.3	3.7	
SE	1.0	.0	.0	.0	1.0	2.1	.8	.1	.3	.2	1.2	
S	3.2	.1	.0	.3	2.3	2.9	1.3	.3	.1	.0	4.0	
SW	4.2	.1	.3	.6	1.3	3.3	1.1	.0	.1	.0	6.0	
W	.3	.0	.0	.3	.8	1.1	.4	.0	.1	.0	4.2	
NW	.3	.0	.0	.0	.4	.2	.3	.0	.0	.0	3.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	.0	.0	.0	.9	1.7	.6	.3	.3	.0	4.9	
TOT OBS	92	2	3	19	91	141	50	12	17	8	292	687
TOT PCT	13.4	.3	.4	2.8	13.2	20.5	7.3	1.7	2.5	1.2	36.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.7	3.4	3.4	3.4	3.4	3.4	3.4	3.6
>5000	3.8	5.1	5.1	5.1	5.1	5.1	5.1	5.3
>3500	9.3	12.1	12.4	12.4	12.4	12.4	12.4	12.5
>2000	20.8	30.6	32.5	32.8	32.8	32.8	33.0	33.2
>1000	25.5	40.5	44.0	44.9	45.6	45.7	46.0	46.2
>600	26.4	42.2	46.9	47.7	48.7	48.9	49.1	49.3
>300	26.5	42.7	47.4	48.3	49.3	49.4	49.7	49.9
>150	26.5	42.7	47.7	48.6	49.6	49.7	50.0	50.1
>0	26.9	43.9	49.6	51.1	52.7	56.6	61.8	63.2
TOTAL	189	308	348	359	370	397	434	444

TOTAL NUMBER OF OBS: 702

PCT FREQ NH <5/8: 36.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.1	4.0	1.3	6.9	3.0	6.5	8.0	7.0	30.2	11.9	771

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1870-1974

AUGUST

AREA 0024 SOYA STRAIT W
45.3N 140.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.4	.1	.2	.2	.2	.1	.0	.0	.0	1.4	
	NN PCP	.3	.4	.3	.4	1.1	2.0	.3	.2	.0	.3	5.3	
	TOT %	.5	.8	.4	.6	1.3	2.2	.4	.2	.0	.3	6.7	
1/2<1	PCP	.1	.3	.2	.2	.3	.2	*	.0	.0	.0	1.3	
	NN PCP	.0	.1	*	.1	.4	.3	*	.0	.0	.0	.9	
	TOT %	.1	.3	.2	.3	.7	.5	.1	.0	.0	.0	2.2	
1<2	PCP	.3	.5	.3	.1	.1	.3	*	.1	.0	.0	1.9	
	NN PCP	.1	.1	*	.1	.1	.4	.1	.0	.0	.1	1.1	
	TOT %	.4	.6	.4	.3	.2	.7	.1	.1	.0	.1	3.0	
2<5	PCP	.2	.4	.6	.2	.4	.4	*	.1	.0	*	2.4	
	NN PCP	.1	.5	.3	.5	.6	.8	.4	*	.0	.1	3.4	
	TOT %	.3	.9	1.0	.7	1.0	1.2	.4	.1	.0	.2	5.8	
5<10	PCP	.1	.6	.6	.4	.5	.3	.1	.2	.0	.1	2.9	
	NN PCP	1.6	3.5	2.3	1.3	3.8	4.2	1.4	.8	.0	.9	19.8	
	TOT %	1.7	4.1	2.9	1.7	4.3	4.5	1.5	1.0	.0	1.0	22.7	
10+	PCP	.1	.3	.4	.1	.1	.1	.1	*	.0	.0	1.2	
	NN PCP	5.0	8.5	7.1	4.9	8.8	11.8	5.6	3.8	.0	2.8	58.4	
	TOT %	5.1	8.9	7.4	5.1	9.0	11.9	5.6	3.8	.0	2.8	59.6	
TOT OBS													
TOT PCT													
		8.2	15.6	12.3	8.7	16.5	20.9	8.2	5.2	.0	4.4	100.0	2059

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.0	.1	.1	.0	*	.0	.1	.8	
	4-10	.3	.8	.7	.2	.6	1.1	.4	.4	.0		4.4	
	11-21	.1	.6	.2	.3	.5	.7	.1	.0	.0		2.5	
	22+	.1	.3	.1	.1	.1	.6	.1	.0	.0		1.4	
	TOT %	.7	1.9	1.1	.6	1.3	2.4	.5	.4	.0	.1	9.1	
1/2<1	0-3	.0	.0	*	*	.0	*	.0	.0	.0	.0	.1	
	4-10	*	*	.2	.2	.3	.2	.1	.0	.0		1.0	
	11-21	*	.1	*	.2	.5	.3	*	.0	.0		1.1	
	22+	.0	.3	.1	.0	*	*	*	.0	.0		.5	
	TOT %	.1	.4	.3	.4	.8	.6	.1	.0	.0	.0	2.6	
1<2	0-3	.0	.0	*	*	.0	*	.1	.0	.0	.1	.3	
	4-10	.3	.3	.3	.2	.3	.4	.0	.1	.0		1.9	
	11-21	.2	.3	.2	.1	.2	.5	.1	.1	.0		1.8	
	22+	.1	.2	.1	.0	*	*	*	.0	.0		.5	
	TOT %	.6	.8	.6	.3	.5	1.0	.3	.2	.0	.1	4.4	
2<5	0-3	.1	*	*	.2	.1	.1	.1	*	.0	.2	.8	
	4-10	.3	.6	.6	.4	.9	1.3	.3	*	.0		4.4	
	11-21	.1	.5	.5	.3	.8	1.0	.3	.1	.0		3.5	
	22+	*	.5	.3	.1	.1	.2	*	.0	.0		1.2	
	TOT %	.6	1.6	1.4	.9	1.8	2.5	.6	.1	.0	.2	9.9	
5<10	0-3	.2	.3	*	.2	.3	.4	.2	.1	.0	.7	2.4	
	4-10	.7	1.5	1.1	.9	2.1	2.0	.8	.5	.0		9.6	
	11-21	.5	1.7	1.1	.5	1.1	1.4	.3	.3	.0		6.8	
	22+	.1	.5	.5	*	.4	.3	.1	*	.0		1.9	
	TOT %	1.6	3.9	2.6	1.6	3.8	4.1	1.4	.9	.0	.7	20.7	
10+	0-3	.6	.9	.5	.4	.9	1.1	.5	.4	.0	2.4	7.7	
	4-10	2.8	3.8	3.6	2.9	4.8	6.2	2.8	2.3	.0		29.2	
	11-21	1.0	2.4	2.5	1.1	2.2	3.6	1.4	.7	.0		14.9	
	22+	*	.6	.3	*	.1	.2	.2	*	.0		1.5	
	TOT %	4.4	7.8	6.8	4.5	8.0	11.0	4.9	3.4	.0	2.4	53.2	
TOT OBS													
TOT PCT													
		7.9	16.5	12.9	8.3	16.3	21.7	7.9	5.1	.0	3.5	100.0	2162

AUGUST

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1870-1974AREA 0024 SOVA STRAIT W
45.3N 140.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	190 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	11.3	.4	.0	2.5	16.7	20.0	7.5	2.5	3.8	2.1	66.7	33.3	240
06009	12.3	.0	1.0	3.6	11.3	25.1	7.7	1.0	1.5	1.0	64.6	35.4	195
12015	13.1	.6	.6	3.0	10.1	16.1	7.7	1.8	1.2	.0	54.2	45.8	168
18021	17.1	.0	.8	3.9	10.9	17.1	3.9	.8	3.1	.8	58.1	41.9	129
TOT	95	2	4	23	93	146	51	12	18	8	452	280	792
PCT	13.0	.3	.5	3.1	12.7	19.9	7.0	1.6	2.5	1.1	61.7	38.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	9.4	2.3	2.1	8.5	18.3	59.3	563
06009	8.9	3.0	4.7	8.4	20.0	54.9	559
12015	8.2	2.6	4.9	10.3	21.7	52.7	622
18021	9.5	2.4	5.5	12.1	21.7	48.7	577
TOT	209	60	98	229	473	1250	2321
PCT	9.0	2.6	4.2	9.9	20.5	53.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	11.9	14.4	23.3	46.2	30.5	236
06009	11.4	14.6	22.7	44.3	33.0	185
12015	13.9	15.8	25.3	39.5	41.1	158
18021	17.9	19.5	30.9	32.5	36.6	123
TOT	93	110	175	284	243	702
PCT	13.2	15.7	24.9	40.3	34.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	1.9	.0	5.7	.0	4	7.5
65/69	.0	.0	.0	.0	.0	1.9	7.5	24.5	18	34.0
60/64	.0	.0	.0	.0	.0	7.5	13.2	20.8	22	41.5
55/59	.0	.0	.0	.0	.0	1.9	7.5	5.7	8	15.1
50/54	.0	.0	.0	.0	.0	.0	.0	1.9	1	1.9
TOTAL	.0	.0	.0	.0	1	6	18	28	53	100.0
PCT	.0	.0	.0	.0	1.9	11.3	34.0	52.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.9	1.9	3.3	.5	.0	.0	.0	.0	.0	.0
5.7	11.3	.0	.5	1.4	11.3	1.9	1.9	.0	.0
.0	15.1	1.9	2.4	1.4	9.9	1.4	5.7	.0	3.8
.0	8.1	3.3	1.9	.0	1.9	.0	.0	.0	1.9
.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
7.5	34.4	10.4	5.2	2.8	23.1	3.3	7.5	.0	5.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	79	77	67	59	50	46	67.2	583
06009	84	81	76	66	57	54	46	67.1	558
12015	79	75	73	66	55	51	45	65.8	632
18021	82	77	73	64	55	50	43	64.9	590
TOT	84	79	75	66	57	50	43	66.2	2363

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	5.9	29.4	23.5	41.2	83	17
06009	.0	.0	.0	.0	28.6	71.4	92	14
12015	.0	.0	.0	.0	40.0	60.0	89	10
18021	.0	.0	.0	8.3	50.0	41.7	88	12
TOT	0	0	1	6	18	28	88	53

AUGUST

PERIOD: (PRIMARY) 1933-1974
(OVER-ALL) 1870-1974AREA 0024 SOYA STRAIT W
45.3N 140.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	WD FOG
23/25	.0	.0	.0	.0	.0	*	*	*	.0	.0	3	*	.1
20/22	.0	.0	.0	.0	*	.0	.0	.0	*	*	3	.0	.1
17/19	.0	.0	.0	.0	*	*	.1	.0	*	.0	5	.0	.2
14/16	.0	.0	.0	*	.0	.2	.1	.3	.0	*	14	.1	.6
11/13	.0	.0	.0	.0	.2	.1	.4	.2	.3	.1	31	.2	1.3
9/10	.0	.0	.0	*	.3	.1	.3	.7	.2	.1	39	.1	1.8
7/8	.0	.0	.0	.1	.2	.9	1.1	.9	.3	.1	75	.6	3.1
6	.0	.0	*	.0	.1	.1	.3	.3	.1	.0	21	*	1.0
5	.0	.0	.0	.1	.7	1.4	1.6	1.6	.5	*	121	.5	5.5
4	.0	.1	.1	.3	1.0	2.3	3.9	1.7	.7	.0	206	1.2	9.0
3	.0	.0	*	*	.3	.5	.3	.1	.0	.0	27	.2	1.1
2	.1	*	.3	.3	3.9	5.1	3.9	2.1	.2	.0	321	1.9	14.0
1	.0	.0	.0	.3	.7	1.0	.4	.1	*	.0	52	.3	2.2
0	.0	.0	.1	1.0	7.3	7.0	4.2	1.5	.0	.0	427	2.2	19.0
-1	.0	.0	*	.5	.9	.5	.3	.1	.0	.0	49	.3	2.1
-2	.0	*	.5	1.1	6.1	3.4	1.8	.3	.0	.0	269	1.2	12.1
-3	.0	.0	*	.2	.8	.3	.1	.1	.0	.0	33	.2	1.4
-4	.0	.1	.3	1.3	3.7	1.8	.5	.0	.0	.0	157	.4	7.3
-5	*	.2	.2	1.0	2.2	.7	.1	.0	.0	.0	90	.3	4.2
-6	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	7	.0	.3
-7/-8	*	*	.4	.5	.5	.2	.0	.0	.0	.0	35	*	1.7
-9/-10	.0	.0	.1	.4	.1	.1	*	.0	.0	.0	17	.1	.7
-11/-13	*	.1	.4	.1	*	.0	.0	.0	.0	.0	15	*	.7
-14/-16	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	6		57		597		396		52		2018	208	1810
PCT	.3	.7	2.8	7.5	29.6	26.1	19.6	10.2	2.6	.5	100.0	10.3	89.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	1.4	.2	.0	.0	.0	1.9	.4	2.2	.6	.0	.0	.0	3.1
1-2	.0	1.7	.6	.0	.0	.0	2.3	.2	2.1	1.9	.0	.0	.0	4.2
3-4	.0	.3	.9	.0	.0	.0	1.2	.0	.2	4.0	.2	.0	.0	4.4
5-6	.0	.4	.4	.1	.0	.0	.9	.0	.2	1.0	1.8	.0	.0	3.0
7	.0	.1	.3	.0	.0	.0	.4	.0	.2	1.2	.6	.0	.0	2.0
8-9	.0	.0	.0	.0	.1	.0	.1	.0	.0	.7	.4	*	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.9	2.5	.1	.1	.0	7.0	.6	4.9	9.3	3.5	.4	.0	18.7

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.5	.3	.0	.0	.0	1.2	.0	1.2	.2	.0	.0	.0	1.5
1-2	.2	2.3	1.9	.0	.0	.0	4.4	.0	1.4	1.1	.0	.0	.0	2.5
3-4	.0	.4	3.3	.2	.0	.0	3.9	.0	.6	1.4	.1	.0	.0	2.1
5-6	.0	.0	.7	.7	.0	.0	1.4	.0	.0	.9	.3	.0	.0	1.2
7	.0	.0	.6	.9	.0	.0	1.5	.0	.0	.1	*	.0	.0	.1
8-9	.0	.0	.2	.5	.0	.0	.7	.0	.0	.0	.1	.2	.0	.3
10-11	.0	.0	.6	.3	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.1	7.6	2.5	.0	.0	13.9	.0	3.2	3.7	.5	.2	.0	7.7

PERIOD: (OVER-ALL) 1963-1974

AUGUST

AREA 0024 SOYA STRAIT W
45.3N 140.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	2.5	.6	.0	.0	.0		3.6	.7	2.2	.1	.0	.0	.0		3.0
1-2	.2	2.0	2.8	.0	.0	.0		4.9	.2	2.7	4.1	.0	.0	.0		7.0
3-4	.2	.7	2.0	.3	.0	.0		3.2	.0	.7	3.0	.6	.0	.0		4.3
5-6	.0	.0	.7	.1	.0	.0		.8	.0	.2	2.4	.2	.0	.0		2.8
7	.0	.0	.4	.3	.0	.0		.6	.0	.0	.6	1.0	.0	.0		1.6
8-9	.0	.0	.0	.6	.0	.0		.6	.0	.0	.0	.8	.0	.0		.8
10-11	.0	.0	.0	.0	.0	.0		.0	.2	.0	.6	.0	.0	.0		.7
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.7	5.3	6.5	1.3	.0	.0		13.8	1.2	5.8	10.8	2.5	.0	.0		20.3

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.5	.0	.0	.0	.0		.7	.0	.6	.0	.0	.0	.0		.6
1-2	.3	.6	.6	.0	.0	.0		1.6	.0	.8	.0	.0	.0	.0		.8
3-4	.0	.2	1.0	.0	.0	.0		1.2	.0	.7	.4	.0	.0	.0		1.1
5-6	.0	.2	.7	.2	.0	.0		1.1	.0	.0	.7	.0	.0	.0		.8
7	.0	.0	.3	.0	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.2	.0	.1	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.2	.0	.2	.0		.4	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.2	.0	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.5	1.7	3.0	.3	.2	.0		5.7	.0	2.2	1.2	.1	.0	.0		90.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	11.8	11.1	2.0	.0	.0	.0	25.0	
1-2	1.1	13.7	13.9	.0	.0	.0	27.7	
3-4	.2	3.9	10.1	1.3	.0	.0	21.4	
5-6	.0	.9	7.6	3.5	.0	.0	12.0	
7	.0	.4	3.5	2.8	.0	.0	6.7	
8-9	.0	.2	.9	2.6	.4	.0	4.1	
10-11	.2	.0	1.3	.7	.2	.0	2.4	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.2	.0	.4	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.3	30.1	44.7	10.9	.9	.0	100.0	541

PERIOD: (OVER-ALL) 1963-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	17.9	15.7	6.8	1.8	1.0	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	332	3
6-7	.0	.7	2.5	2.8	2.7	1.6	.8	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	6
8-9	.0	.0	1.3	1.0	1.4	.8	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	7
10-11	.0	1.3	.1	.0	.6	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
12-13	.0	.0	1.0	.1	.0	.1	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	6
>13	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
INDEX	13.1	8.6	3.5	3.7	1.4	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	222	2
TOTAL	113	202	171	103	96	32	21	3	6	1	0	0	0	0	0	0	0	0	0	708	3
PCT	16.0	28.5	24.2	14.5	7.9	4.5	3.0	.4	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1850-1974

SEPTEMBER

AREA 0024 SOVA STRAIT W
45.4N 140.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	9.5	.4	1.5	.0	.0	.0	.0	11.3	.0	.0	1.1	.6	.0	.7	86.2
NE	9.9	.2	4.0	.0	.0	.0	.0	14.1	1.7	.0	2.9	.0	.0	.0	81.3
E	11.9	.3	6.0	.0	.0	.0	.0	10.3	3.2	.0	1.3	.0	.3	.0	77.1
SE	13.0	.5	2.1	.0	.0	.0	.0	15.5	1.9	.1	1.3	.0	.6	.5	80.3
S	12.1	1.3	1.2	.0	.0	.0	.0	14.5	2.6	.8	.7	.0	.3	.0	81.4
SW	5.0	1.2	.8	.0	.0	.0	.0	7.0	1.0	.6	2.3	.0	.3	.0	89.0
W	3.9	1.4	.0	.0	.0	.0	.0	5.3	.3	1.3	1.0	.0	.0	.0	92.8
NW	6.9	.7	.3	.0	.0	.0	.0	7.9	1.1	.6	2.0	.1	.0	.0	88.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0	.0	.0	.0	.0	.0	.0	2.0	2.0	.0	.0	.0	.0	.0	94.1
TOT PCT	8.5	.8	2.0	.0	.0	.0	.0	11.3	1.6	.5	1.6	*	.2	.1	85.0
TOT OBS:	2048														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	7.0	1.0	1.4	.0	.0	.0	.0	9.5	2.1	.0	2.7	.0	.0	.2	85.6
06009	7.9	.7	1.8	.0	.0	.0	.0	10.4	1.0	.2	1.1	.0	.2	.2	86.1
12015	8.6	1.2	2.4	.0	.0	.0	.0	12.3	2.1	.9	1.2	.0	.3	.0	83.8
18021	10.4	.4	2.0	.0	.0	.0	.0	12.8	.6	.8	1.4	.2	.2	.0	84.3
TOT PCT	8.5	.9	2.0	.0	.0	.0	.0	11.3	1.7	.5	1.6	*	.2	.1	84.9
TOT OBS:	2102														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	3.1	2.2	.7	.2	.0		6.6	12.1		6.3	6.9	4.9	8.7	4.8	6.9	8.6	5.9
NE	1.0	5.8	4.1	1.3	.3	.0		12.4	11.8		13.8	11.7	11.4	10.8	13.1	14.0	12.9	11.5
E	.7	6.9	4.9	1.5	.2	.0		14.2	12.3		13.7	13.8	13.0	14.0	13.0	14.8	10.2	19.1
SE	.7	6.7	3.5	.9	*	.0		11.8	10.4		10.9	13.0	10.3	12.1	10.8	11.7	9.2	14.6
S	1.0	5.2	3.7	1.1	.1	.0		11.2	11.6		14.9	11.7	12.5	6.7	10.1	10.7	11.5	12.4
SW	.9	7.0	7.4	1.7	.5	.0		17.5	13.0		15.9	19.1	21.8	20.5	16.4	15.9	18.1	13.7
W	.4	6.3	5.9	2.2	.3	.0		15.2	13.7		12.0	14.3	14.1	15.4	18.3	15.7	15.0	15.8
NW	.6	4.0	3.0	1.1	.1	.0		8.9	12.6		8.4	8.7	7.4	10.5	9.1	10.2	9.9	7.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0		4.2	.8	4.7	1.4	4.2	.3	4.7	.0
TOT OBS	172	960	741	225	36	0	2134		12.0		239	247	236	293	259	354	192	314
TOT PCT	8.1	45.0	34.7	10.5	1.7	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	1.9	3.1	1.1	.3	.1		6.6	12.1	6.6	6.9	6.0	6.9
NE	3.8	5.6	2.6	.3	.1		12.4	11.8	12.8	11.1	13.6	12.0
E	3.7	6.6	3.4	.5	.1		14.2	12.3	13.7	13.6	14.0	13.7
SE	4.0	5.8	1.7	.3	.0		11.8	10.4	11.9	11.3	11.3	12.6
S	3.3	5.0	2.6	.3	.0		11.2	11.6	13.3	9.3	10.4	12.1
SW	3.8	8.3	4.7	.6	*		17.5	13.0	17.5	21.1	16.1	13.4
W	3.0	7.3	4.1	.7	.1		15.2	13.7	13.2	14.8	16.8	13.5
NW	2.4	3.8	2.2	.5	.0		8.9	12.6	8.5	9.1	9.7	8.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.2						2.2	.0	2.5	2.8	2.0	1.8
TOT OBS	605	969	475	74	11	2134		12.0	486	529	613	506
TOT PCT	28.4	45.4	22.3	3.5	.5		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1859-1974

AREA 0024 SOVA STRAIT W
45.4N 140.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000Z	2.5	4.5	42.0	37.7	10.7	2.7	.0	12.7	100.0	486
0600Z	2.8	6.6	43.1	35.5	10.6	1.3	.0	12.0	100.0	529
1200Z	2.0	6.5	47.1	31.0	12.2	1.1	.0	11.7	100.0	613
1800Z	1.8	5.3	47.2	35.6	8.3	1.8	.0	11.6	100.0	506
TOT	48	124	960	741	225	36	0	12.0		2134
PCT	2.2	5.8	45.0	34.7	10.5	1.7	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.0	.8	2.2	1.7		4.7
NE	2.3	1.6	3.8	5.2		5.7
E	1.8	1.0	3.7	7.6		6.4
SE	1.8	1.4	2.7	3.3		5.4
S	3.1	1.6	3.5	3.7		5.1
SW	8.1	3.3	3.9	1.9		3.2
W	6.7	2.5	3.7	1.0		3.1
NW	4.1	1.0	2.6	1.4		3.7
VAR	.0	.0	.0	.0		.0
CALM	2.7	.5	1.0	.9		3.1
TOT OBS	257	108	213	210	788	4.5
TOT PCT	32.6	13.7	27.0	26.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	1.0	1.9	.3	.0	.0	.0	.0	3.6
NE	.5	.4	.4	.6	2.3	3.6	.4	.0	.0	.0	.0	4.9
E	.6	.3	.5	.5	3.2	4.1	.7	.0	.1	.3	.3	5.6
SE	.3	.2	.1	.1	2.2	1.2	.7	.0	.0	.2	.2	4.2
S	.2	.3	.1	.0	1.8	2.3	.5	.1	.2	.2	.2	6.0
SW	.1	.0	.1	.1	1.4	1.1	.3	.0	.2	.0	.0	13.8
W	.1	.0	.1	.0	1.0	1.0	.6	.2	.3	.0	.0	10.4
NW	.3	.0	.1	.1	1.0	1.5	.3	.0	.3	.0	.0	5.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	.1	.0	.1	.3	.4	.4	.0	.1	.0	.0	3.6
TOT OBS	18	7	12	13	112	136	33	3	10	6	438	788
TOT PCT	2.3	.9	1.5	1.6	14.2	17.3	4.2	.4	1.3	.8	55.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1
= OR >5000	1.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5
= OR >3500	5.3	6.8	7.1	7.1	7.1	7.1	7.1	7.1
= OR >2000	15.1	23.4	24.5	24.7	24.7	24.7	24.7	24.7
= OR >1000	21.8	34.1	37.7	37.9	38.2	38.2	38.2	38.2
= OR >600	22.3	35.1	39.0	39.3	39.5	39.7	39.7	39.7
= OR >300	23.2	36.2	40.6	40.9	41.1	41.3	41.3	41.3
= OR >150	23.4	36.6	41.4	41.6	41.9	42.0	42.0	42.0
= OR >0	23.7	37.4	43.1	43.5	44.0	44.5	44.5	44.5
TOTAL	191	302	348	351	355	359	359	359

TOTAL NUMBER OF OBS: 807

PCT FREQ NH <5/8: 55.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
20.0	8.1	13.0	7.7	5.7	5.9	7.9	8.4	21.2	2.1	866

SEPTEMBER

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1859-1974AREA 0024 SOYA STRAIT W
43.4N 140.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	.1	.1	.1	*	.1	.1	.0	.0	.6	
	NO PCP	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	TOT %	.0	.2	.1	.1	.1	.1	.1	.1	.0	.0	.8	
1/2<1	PCP	.1	.1	.2	.1	.2	*	*	.1	.0	.0	.9	
	NO PCP	.0	.1	*	.1	.1	.2	.0	.0	.0	.0	.6	
	TOT %	.1	.2	.3	.2	.3	.2	*	.1	.0	.0	1.5	
1<2	PCP	*	.1	.4	.3	*	.1	*	.0	.0	.0	1.0	
	NO PCP	.0	.0	.1	.1	.0	*	.0	.1	.0	.0	.3	
	TOT %	.1	.1	.5	.3	*	.2	*	.1	.0	.0	1.3	
2<5	PCP	.2	.7	.9	.4	.3	.3	*	.2	.0	.0	3.0	
	NO PCP	.2	.4	.5	.1	.2	.2	.1	.1	.0	.0	1.8	
	TOT %	.4	1.1	1.4	.4	.5	.6	.2	.3	.0	.0	4.8	
5<10	PCP	.3	.7	.7	.5	.7	.4	.5	.2	.0	*	4.0	
	NO PCP	1.5	2.5	2.9	2.0	1.8	3.0	2.9	1.5	.0	.4	18.5	
	TOT %	1.7	3.2	3.6	2.5	2.5	3.3	3.4	1.7	.0	.5	22.5	
10+	PCP	.1	.1	.3	.4	.2	.3	.2	.1	.0	.0	1.8	
	NO PCP	4.1	7.8	8.4	6.8	7.5	13.0	11.4	6.2	.0	2.0	67.3	
	TOT %	4.3	7.9	8.8	7.1	7.7	13.3	11.6	6.3	.0	2.0	69.0	
TOT OBS													
TOT PCT													
6.5 12.7 14.6 10.7 11.3 17.8 15.3 8.6 .0 2.5 100.0													

2043

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.3	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	*	.0	.1	.6	.1	.3	*	*	.0	.0	1.2	
	11-21	.0	*	*	.0	.1	.3	*	.0	.0	.0	.5	
	22+	*	.1	*	.0	.2	*	*	.1	.0	.0	.6	
	TOT %	.1	.2	.2	.6	.4	.6	.1	.1	.0	.0	2.3	
1/2<1	0-3	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	4-10	*	.1	.1	.1	.1	*	*	*	.0	.0	.5	
	11-21	*	.0	.1	*	.1	.1	*	.1	.0	.0	.5	
	22+	.1	.1	*	.1	.1	.2	*	*	.0	.0	.7	
	TOT %	.1	.2	.2	.2	.4	.3	.1	.2	.0	.0	1.7	
1<2	0-3	*	.0	.0	*	.0	.0	*	*	.0	.0	.1	
	4-10	.1	.1	.1	.1	.1	*	.0	.1	.0	.0	.7	
	11-21	.1	.0	.2	.2	.0	.1	*	.0	.0	.0	.7	
	22+	.0	.1	.2	*	.0	*	*	*	.0	.0	.5	
	TOT %	.2	.2	.6	.4	.1	.2	.1	.2	.0	.0	2.0	
2<5	0-3	*	.0	*	.1	.0	.0	.0	*	.0	.0	.1	
	4-10	.3	.6	.9	.8	.4	.6	.2	.3	.0	.0	4.1	
	11-21	.3	.4	.8	.4	.3	.3	.3	.2	.0	.0	2.9	
	22+	.1	.2	.4	.2	.1	.2	.1	.3	.0	.0	1.6	
	TOT %	.6	1.3	2.1	1.4	.8	1.0	.6	.8	.0	.0	8.7	
5<10	0-3	.2	.3	.1	*	.2	.2	*	.2	.0	.5	1.7	
	4-10	.5	1.1	1.3	.9	.7	1.0	1.0	.6	.0	.0	7.0	
	11-21	.6	1.2	1.1	.9	.9	1.4	1.4	.6	.0	.0	8.1	
	22+	.3	.4	.6	.4	.6	.6	.9	.2	.0	.0	3.9	
	TOT %	1.6	2.9	3.1	2.3	2.4	3.1	3.3	1.6	.0	.5	20.7	
10+	0-3	.3	.7	.5	.5	.8	.7	.3	.4	.0	1.8	6.0	
	4-10	2.2	4.0	4.3	4.3	4.0	5.2	5.2	3.0	.0	.0	32.1	
	11-21	1.2	2.2	2.6	1.8	2.4	5.4	4.0	2.1	.0	.0	21.7	
	22+	.3	.6	.5	.2	.2	1.1	1.4	.6	.0	.0	4.8	
	TOT %	3.9	7.5	7.9	6.8	7.3	12.3	11.0	6.1	.0	1.8	64.6	
TOT OBS													
TOT PCT													
6.6 12.3 14.2 11.7 11.3 17.5 15.3 8.9 .0 2.3 100.0													

2082

SEPTEMBER

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1859-1974

AREA 0024 SDVA STRAIT W
45.4N 140.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.6	.4	1.2	2.0	16.1	18.5	5.1	.8	2.8	.4	48.8	51.2	254
06009	1.2	1.2	1.6	1.2	12.6	21.3	5.1	.0	.8	1.2	46.1	53.9	254
12015	3.1	1.5	1.5	2.0	13.8	12.2	2.0	.0	.0	1.5	37.8	62.2	196
18021	5.1	.0	2.2	.7	10.1	15.2	5.1	.7	.7	.0	39.9	60.1	138
TOT	20	7	13	13	114	146	37	3	10	7	370	472	842
PCT	2.4	.8	1.5	1.5	13.5	17.3	4.4	.4	1.2	.8	43.9	56.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.1	2.5	1.7	7.4	18.8	67.4	515
06009	1.7	1.2	1.1	6.3	18.2	70.7	573
12015	2.4	1.6	1.6	10.9	20.2	57.3	633
18021	2.6	1.3	2.8	10.6	19.8	63.1	529
TOT	90	37	43	199	472	1449	2250
PCT	2.2	1.6	1.9	8.8	21.0	64.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.6	4.1	11.8	38.6	49.6	246
06009	1.2	4.4	6.7	39.7	53.6	252
12015	3.3	6.1	14.9	23.8	61.3	181
18021	5.5	7.8	15.6	28.9	55.5	128
TOT	20	42	93	275	439	807
PCT	2.5	5.2	11.5	34.1	54.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.9	.9	.0	2	1.8
65/69	.9	.9	.9	2.7	1.8	7.1	4.5	4.5	26	23.2
60/64	.0	.9	3.6	3.6	9.8	13.4	7.1	5.4	49	43.8
55/59	.0	.0	2.7	.9	.0	6.3	4.5	.9	17	15.2
50/54	.0	.0	1.8	2.7	.9	1.8	2.7	1.8	13	11.6
45/49	.0	.0	.0	.9	.9	.0	.9	.9	4	3.6
40/44	.0	.0	.0	.0	.0	.0	.9	.0	1	.9
TOTAL	1	2	10	12	15	33	24	15	112	100.0
PCT	.9	1.8	8.9	10.7	13.4	29.5	21.4	13.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.2	.7	.0	.9	.0	.0	.0
2.5	2.0	.9	2.9	6.5	3.1	1.8	1.8	.0	.0	1.8
4.9	3.3	6.3	3.6	3.1	14.1	5.4	3.1	.0	.0	.0
.0	.0	1.8	.0	.7	3.1	4.7	4.9	.0	.0	.0
.0	.0	.9	.9	.0	1.1	4.9	3.8	.0	.0	.0
.7	.9	.0	.0	.0	.9	.0	.2	.0	.9	.9
.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0
8.0	6.3	9.8	7.6	10.9	22.3	17.6	14.7	.0	2.7	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	73	72	63	54	50	42	63.1	525
06009	79	73	72	63	54	46	43	62.5	566
12015	77	72	70	63	52	48	39	61.7	642
18021	75	73	70	62	52	46	41	61.1	540
TOT	79	73	70	63	52	48	39	62.1	2273

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	2.6	25.6	23.1	12.8	15.4	20.5	71	39
06009	.0	35.7	3.6	39.3	14.3	7.1	68	28
12015	.0	4.2	12.5	33.3	41.7	8.3	78	24
18021	.0	18.2	9.1	40.9	18.2	13.6	74	22
TOT	1	25	15	33	24	15	72	113

SEPTEMBER

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1859-1974

AREA 0024 SOYA STRAIT W
45.4N 140.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	6	.0	.3
11/13	.0	.0	.0	.0	.0	.2	.3	.1	.1	.0	17	.0	.8
9/10	.0	.0	.0	.0	.3	.4	.5	.0	.0	.0	27	.0	1.3
7/8	.0	.0	.0	.1	.7	.8	.3	.2	.1	.0	47	.0	2.3
6	.0	.0	.0	.0	.2	.3	.2	.2	.0	.0	20	.0	1.0
5	.0	.0	.0	.0	.2	1.5	.8	.8	.3	.0	75	.0	3.7
4	.0	.0	.0	.1	.6	1.5	1.1	1.1	.3	.0	98	.0	4.8
3	.0	.0	.0	.0	.3	.5	.6	.1	.0	.0	31	.0	1.5
2	.0	.0	.0	.5	.9	4.1	3.1	1.3	.5	.0	212	.3	10.3
1	.0	.0	.0	.1	.5	1.0	.5	.0	.0	.0	42	.1	2.0
0	.0	.0	.2	.9	1.5	6.8	3.8	1.6	.1	.0	302	.5	14.5
-1	.0	.0	.0	.1	.4	1.1	.7	.1	.0	.0	50	.1	2.4
-2	.0	.0	.4	1.4	2.7	8.6	3.0	1.3	.1	.0	355	.1	17.5
-3	.0	.0	.1	.2	.8	.9	.5	.1	.0	.0	54	.0	2.7
-4	.0	.0	.4	.9	3.0	5.6	2.2	.3	.0	.0	250	.1	12.3
-5	.0	.1	.4	1.2	3.0	3.2	.7	.0	.0	.0	179	.2	8.7
-6	.0	.0	.1	.5	.4	.4	.1	.0	.0	.0	33	.0	1.6
-7/-8	.0	.4	.3	.9	1.6	1.6	.4	.0	.0	.0	108	.0	5.3
-9/-10	.0	.0	.4	1.0	.8	.4	.0	.0	.0	.0	55	.0	2.7
-11/-13	.0	.1	.3	.7	.3	.1	.0	.0	.0	.0	32	.0	1.6
-14/-16	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	9	.0	.4
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	2	17	65	181	360	790	398	155	36	5	2009	33	1976
PCT	.1	.8	3.2	9.0	17.9	39.3	19.8	7.7	1.8	.2	100.0	1.6	98.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	1.1	.0	.0	.0	.0	1.3	.5	.9	.2	.0	.0	.0	1.6
1-2	.0	1.1	.4	.0	.0	.0	1.5	.0	2.5	1.2	.0	.0	.0	3.7
3-4	.0	.2	1.0	.4	.0	.0	1.6	.0	.2	2.3	.0	.0	.0	2.5
5-6	.0	.2	.4	.2	.0	.0	.7	.0	.5	1.4	1.1	.0	.0	2.9
7	.0	.0	.4	.1	.2	.0	.6	.0	.3	.8	.9	.2	.0	2.2
8-9	.0	.0	.0	.3	.2	.0	.4	.0	.2	.2	.2	.0	.0	.5
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.5	.2	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.6	2.3	1.1	.3	.0	6.5	.5	4.5	6.0	2.7	.5	.0	14.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.9	.0	.0	.0	.0	1.3	.4	1.9	.0	.0	.0	.0	2.3
1-2	.0	1.9	1.6	.0	.0	.0	3.4	.0	2.0	1.6	.0	.0	.0	3.6
3-4	.0	.4	2.1	.7	.0	.0	3.2	.0	.3	.7	.0	.0	.0	1.0
5-6	.0	.3	1.5	.6	.2	.0	2.5	.0	.2	.8	.2	.0	.0	1.2
7	.0	.0	.6	.6	.0	.0	1.3	.0	.0	.5	.2	.0	.0	.7
8-9	.0	.0	.2	.4	.2	.0	.7	.0	.0	.5	.2	.0	.0	.6
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.0	.2	.2	.0	.0	.4
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.4	5.9	2.6	.5	.0	12.9	.4	4.3	4.5	.8	.0	.0	9.9

PERIOD: (OVER-ALL) 1963-1974

SEPTEMBER

AREA 0024 SOYA STRAIT W
45.4N 140.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	SW	34-47	48+	PCT
<1	.4	1.5	.1	.0	.0	.0	2.1	1.2	1.8	.3	.0	.0	.0	3.3
1-2	.0	2.3	.8	.0	.0	.0	3.1	.0	3.3	.9	.0	.0	.0	4.3
3-4	.0	1.2	2.7	.3	.0	.0	4.2	.0	.5	3.5	.0	.0	.0	4.0
5-6	.0	.3	1.2	.0	.0	.0	1.5	.0	.1	2.4	.3	.2	.0	3.0
7	.0	.0	.5	.3	.0	.0	.8	.0	.0	1.3	.5	.0	.0	1.8
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.0	.2	.4	.0	.0	.6
10-11	.0	.0	.1	.3	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.2	.3	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.4	5.9	1.1	.2	.0	13.0	1.2	5.7	8.9	1.5	.2	.0	17.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	NW	34-47	48+	PCT	TOTAL PCT
<1	.3	.9	.2	.0	.0	.0	1.3	.0	1.2	.3	.0	.0	.0	1.5	
1-2	.1	1.3	1.3	.0	.0	.0	2.7	.0	1.1	.8	.0	.0	.0	1.9	
3-4	.0	.6	2.5	.2	.0	.0	3.2	.0	.1	1.4	.1	.0	.0	1.6	
5-6	.0	.3	1.1	.6	.0	.0	2.0	.0	.0	.4	.2	.0	.0	.5	
7	.0	.0	.5	.8	.2	.0	1.5	.0	.0	.3	.4	.0	.0	.6	
8-9	.0	.0	.5	.9	.0	.0	1.4	.0	.0	.4	.1	.2	.0	.6	
10-11	.0	.0	.4	.3	.2	.0	.8	.0	.0	.1	.2	.0	.0	.2	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.2	.3	.0	.5	.0	.2	.0	.0	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	3.1	6.5	3.0	.6	.0	13.6	.0	2.6	3.6	1.1	.2	.0	7.4	94.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.5	10.2	1.1	.0	.0	.0	19.7	
1-2	.2	15.5	8.6	.0	.0	.0	24.3	
3-4	.0	3.4	16.3	1.7	.0	.0	21.4	
5-6	.0	1.7	9.2	3.1	.3	.0	14.4	
7	.0	.3	4.9	3.8	.5	.0	9.4	
8-9	.0	.2	2.0	2.5	.5	.0	5.2	
10-11	.0	.0	.9	1.7	.5	.0	3.1	
12	.0	.0	.2	.5	.0	.0	.6	
13-16	.0	.3	.3	.3	.5	.0	1.4	
17-19	.0	.0	.0	.2	.2	.0	.3	
20-22	.0	.0	.2	.0	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.6	31.6	43.7	13.8	2.3	.0	100.0	639

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	14.3	16.3	8.6	3.4	1.6	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	380	4
6-7	.0	.6	2.3	2.9	3.0	2.1	1.2	.7	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	112	7
8-9	.0	.1	.5	1.0	1.5	.4	1.1	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	8
10-11	.0	1.0	.1	.2	.4	.2	.5	.1	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	25	8
12-13	.0	.0	.4	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
>13	.0	.0	.0	.0	.2	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	6	12
INDPT	6.4	7.8	6.1	4.1	2.9	1.7	.9	.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	252	3
TOTAL	63	196	211	139	96	31	36	9	13	7	2	0	0	0	0	0	0	0	0	823	4
PCT	7.7	23.8	25.6	16.9	11.7	6.2	4.4	1.1	1.6	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1959-1974

OCTOBER

AREA 0024 SOYA STRAIT W
45.5N 140.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	13.1	1.3	.6	.0	.0	.0	.0	15.0	1.9	.0	1.0	.0	.0	.0	82.1
NE	15.6	.0	3.1	.0	.0	.0	.0	18.8	.2	.0	.8	.0	.0	.0	80.2
E	19.5	.9	2.5	.0	.0	.0	.0	23.0	.7	.0	4.5	.0	.0	.0	71.8
SE	14.2	1.4	1.8	.0	.0	.0	.0	17.4	.0	.0	4.4	.0	.0	.7	77.4
S	9.0	1.1	1.3	.0	.0	.0	.0	11.3	1.7	.0	2.5	.0	.0	.0	84.4
SW	3.3	.2	.9	.0	.3	.0	.0	4.7	1.4	.0	2.2	.0	.0	.0	91.7
W	3.8	.1	.0	.0	.5	.0	.0	4.4	1.1	.3	1.0	.0	.0	.3	93.3
NW	4.3	.7	1.4	.0	.4	.0	.0	6.8	.5	.4	1.4	.0	.0	.0	90.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.7	.0	.0	.0	.0	.0	.0	5.7	2.9	.0	5.7	.0	.0	.0	85.7
TOT PCY	7.8	.6	1.1	.0	.2	.0	.0	9.7	1.0	.1	2.0	.0	.0	.1	87.1
TOT OBS:	1732														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	7.9	.2	1.3	.0	.0	.0	.0	9.4	.9	.0	2.9	.0	.0	.2	86.5
06009	8.3	.7	1.1	.0	.4	.0	.0	10.5	1.5	.0	2.4	.0	.0	.0	89.6
12015	7.8	.2	.8	.0	.2	.0	.0	9.1	1.7	.2	1.1	.0	.0	.2	87.8
18021	7.7	1.2	1.0	.0	.2	.0	.0	10.2	.5	.5	1.7	.0	.0	.0	87.3
TOT PCY	7.9	.6	1.1	.0	.2	.0	.0	9.8	1.2	.2	2.0	.0	.0	.1	86.8
TOT OBS:	1779														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	3.3	3.7	1.7	.4	.0		9.6	15.1		9.1	15.6	9.1	9.4	7.0	10.1	5.6	10.7
NE	.4	2.9	2.4	1.2	.1	.0		7.1	13.4		6.0	8.7	7.9	5.9	6.3	7.1	7.6	8.1
E	.6	3.0	1.9	1.0	.3	.0		6.7	12.8		6.4	6.6	5.7	6.6	7.9	5.0	6.0	9.1
SE	1.1	3.5	2.5	.4	.1	.0		7.6	10.2		7.5	8.0	3.5	10.1	5.1	7.1	7.9	11.5
S	.7	3.6	3.4	.8	.2	.0		8.7	12.0		10.7	8.1	9.3	5.9	7.0	9.9	7.1	10.6
SW	.6	5.7	10.0	3.2	.4	.0		20.0	15.1		19.1	15.7	20.9	20.7	28.7	19.4	24.7	12.8
W	.6	6.1	10.4	4.8	.5	.0		22.4	16.1		22.7	21.1	27.8	26.1	21.9	23.6	16.2	18.3
NW	.5	5.2	6.6	3.4	.3	.0		16.0	15.4		17.2	15.0	12.4	15.0	14.5	16.4	20.2	17.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0		2.2	1.1	3.3	.5	1.7	1.3	4.6	1.2
TOT OBS	118	566	696	279	39	0	1698		14.2		229	178	209	213	232	238	151	248
TOT PCT	6.9	33.3	41.0	16.4	2.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	03	06	12	18
N	2.2	3.5	2.6	1.1	.2		9.6	15.1		11.9	9.2	8.6	8.8	
NE	1.5	3.5	1.7	.4	*		7.1	13.4		7.2	6.9	6.7	7.9	
E	2.2	2.6	1.4	.5	*		6.7	12.8		6.5	6.2	6.4	7.9	
SE	3.0	3.2	1.3	.1	*		7.6	10.2		7.7	6.8	6.1	10.2	
S	2.1	4.6	1.6	.4	.0		8.7	12.0		9.6	7.5	6.5	9.3	
SW	2.4	9.3	7.1	1.1	*		20.0	15.1		17.1	20.8	24.0	17.3	
W	2.7	8.8	8.9	1.8	.2		22.4	16.1		22.0	26.9	22.8	17.5	
NW	2.0	6.9	5.6	1.4	.0		16.0	15.4		16.3	13.7	15.5	18.7	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	1.9						1.9	.0		1.7	1.9	1.5	2.5	
TOT OBS	338	723	511	117	9	1698		14.2		407	422	470	399	
TOT PCT	19.9	42.6	30.1	6.9	.5		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1859-1974

OCTOBER

AREA 0024 SOYA STRAIT W
45.5N 140.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.7	6.4	28.5	41.8	17.7	3.9	.0	14.9	100.0	407
06009	1.9	5.2	31.0	42.9	16.8	2.1	.0	14.2	100.0	422
12015	1.5	3.2	35.5	40.6	17.2	1.9	.0	14.5	100.0	470
18021	2.5	5.8	38.1	38.6	13.8	1.3	.0	13.0	100.0	399
TOT	32	86	566	696	279	39	0	14.2		1698
PCT	1.9	5.1	33.3	41.0	16.4	2.3	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	1.3	3.0	1.8		4.7
NE	1.8	.6	1.5	2.4		5.1
E	1.7	.1	1.1	2.9		5.0
SE	1.2	.8	1.8	1.9		5.1
S	3.2	1.1	1.8	2.7		4.3
SW	9.0	2.8	5.9	3.0		3.5
W	10.7	3.5	7.8	3.2		3.7
NW	7.4	2.1	5.2	1.7		3.5
VAR	.0	.0	.0	.0		.0
CALM	2.0	.3	.7	.1		2.2
TOT OBS	29.4	9.5	21.7	14.9	744	3.9
TOT PCT	39.5	12.8	28.5	19.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.2	.0	.1	.2	1.4	2.0	.4	.0	.1	.1	4.0	
.2	.0	.0	.7	1.2	1.1	.3	.0	.0	.0	2.9	
.7	.1	.1	.0	1.0	1.1	.0	.0	.0	.1	1.9	
.2	.4	.0	.1	.6	1.5	.1	.1	.0	.1	2.5	
.2	.0	.0	.3	1.5	1.6	.3	.0	.0	.1	4.8	
.1	.2	.1	.4	2.0	2.2	1.6	.2	.3	.1	13.2	
.4	.1	.2	.1	1.6	5.0	1.1	.1	.0	.4	16.2	
.1	.0	.0	.3	2.2	2.3	.7	.0	.1	.0	10.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.0	.0	.0	.0	.4	.1	.0	.0	.0	2.4	
.18	.6	.5	.16	.85	1.28	.35	.3	.4	.7	4.96	
2.4	.8	.7	2.2	11.6	17.2	4.7	.4	.5	.9	58.6	744
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>5000	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>3500	4.4	6.3	6.4	6.4	6.4	6.4	6.4	6.4
>2000	15.4	23.0	24.1	24.2	24.2	24.2	24.2	24.2
>1000	21.1	32.0	35.3	35.6	35.6	35.6	35.6	35.6
>600	22.1	34.0	37.2	37.7	37.7	37.7	37.7	37.7
>300	22.4	34.5	37.7	38.4	38.4	38.4	38.4	38.4
>150	22.5	35.0	38.5	39.1	39.1	39.1	39.1	39.1
>0	22.9	36.2	40.2	41.4	41.6	41.8	42.0	42.0
TOTAL	178	281	312	322	323	325	326	326

TOTAL NUMBER OF OBS: 777

PCT FREQ NH <5/8: 58.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
26.4	6.1	12.0	6.4	6.6	6.2	10.0	8.3	15.6	2.5	808

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1859-1974

OCTOBER

AREA 0024 SOVA STRAIT W
45.5N 140.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.2	.1	.0	.0	.0	.0	.1	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.0	.2	.1	.0	.0	.0	.0	.1	.0	.0	.6	
1<2	PCP	.3	.1	.3	.2	.2	.2	.2	.2	.0	.0	1.7	
	NO PCP	.0	.0	.1	.0	.0	.1	.0	.1	.0	.1	.3	
	TOT %	.3	.2	.4	.2	.2	.3	.2	.2	.0	.1	2.1	
2<5	PCP	.4	.4	.4	.4	.4	.7	.3	.3	.0	.0	2.8	
	NO PCP	.2	.1	.2	.1	.5	.5	.2	.1	.0	.1	1.8	
	TOT %	.6	.5	.6	.5	.7	.7	.5	.4	.0	.1	4.6	
5<10	PCP	.3	.3	.4	.7	.4	.2	.4	.4	.0	.1	3.2	
	NO PCP	1.7	1.2	1.2	1.2	1.7	4.2	4.0	3.3	.0	.3	18.9	
	TOT %	2.1	1.5	1.6	1.9	2.0	4.4	4.4	3.9	.0	.3	22.1	
10+	PCP	.3	.2	.1	.2	.1	.2	.2	.2	.0	.1	1.6	
	NO PCP	5.7	4.4	3.5	5.3	6.0	13.3	17.6	11.4	.0	1.5	68.7	
	TOT %	6.0	4.6	3.6	5.5	6.2	13.5	17.8	11.6	.0	1.6	70.4	
TOT OBS													1734
TOT PCT		9.0	6.9	6.3	8.1	9.1	19.2	23.0	16.3	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	22+	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	4-10	.1	.0	.1	.0	.0	.0	.0	.1	.0	.0	.4	
	11-21	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	22+	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.1	.4	.2	.0	.0	.0	.1	.2	.0	.0	1.1	
1<2	0-3	.1	.0	.0	.0	.1	.1	.0	.0	.0	.1	.4	
	4-10	.1	.0	.2	.2	.1	.2	.0	.0	.0	.0	.9	
	11-21	.1	.1	.2	.0	.1	.1	.1	.2	.0	.0	.9	
	22+	.3	.1	.2	.0	.1	.1	.3	.0	.0	.0	1.1	
	TOT %	.6	.2	.6	.3	.3	.6	.4	.2	.0	.1	3.3	
2<5	0-3	.1	.1	.0	.1	.1	.0	.1	.0	.0	.1	.4	
	4-10	.2	.2	.3	.1	.2	.3	.3	.3	.0	.0	2.0	
	11-21	.4	.1	.1	.3	.2	.4	.5	.5	.0	.0	2.6	
	22+	.4	.3	.3	.1	.3	.3	.4	.2	.0	.0	2.4	
	TOT %	1.1	.8	.8	.6	.8	1.0	1.3	1.0	.0	.1	7.5	
5<10	0-3	.0	.1	.1	.2	.1	.2	.0	.2	.0	.2	1.1	
	4-10	.5	.6	.5	.7	.5	1.0	.7	1.4	.0	.0	5.9	
	11-21	.9	.6	.6	.8	1.1	2.1	2.0	1.3	.0	.0	9.3	
	22+	.7	.2	.4	.1	.2	1.1	1.5	1.1	.0	.0	5.3	
	TOT %	2.0	1.5	1.5	1.8	1.9	4.4	4.2	4.0	.0	.2	21.6	
10+	0-3	.4	.2	.5	.8	.5	.4	.4	.2	.0	1.4	4.8	
	4-10	2.4	2.0	1.8	2.5	2.8	4.1	5.0	3.4	.0	.0	24.0	
	11-21	2.3	1.6	1.1	1.4	2.0	7.1	7.9	4.7	.0	.0	27.9	
	22+	.7	.4	.2	.3	.4	2.0	3.2	2.3	.0	.0	9.5	
	TOT %	5.8	4.2	3.6	4.9	5.6	13.5	16.4	10.7	.0	1.4	66.2	
TOT OBS													1675
TOT PCT		9.7	7.2	6.8	7.7	8.7	19.6	22.5	16.0	.0	1.8	100.0	

OCTOBER

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1859-1974AREA 0024 SOYA STRAIT W
45.5N 140.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	200 599	300 999	400 1999	500 3499	600 4999	700 6499	800 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	2.0	.8	.8	2.0	13.8	21.9	6.1	.4	1.2	.4	49.4	50.6	247
06009	2.6	.4	.4	2.1	12.4	20.6	3.4	.0	.4	1.7	44.2	55.8	233
12014	4.2	1.1	1.1	1.6	11.6	12.1	3.7	.5	.0	.5	36.3	63.7	190
18021	2.5	.8	.0	2.5	4.9	10.7	4.9	.8	.0	.8	27.9	72.1	122
TOT	22	6	5	16	91	138	36	3	4	7	328	464	792
PCT	2.8	.8	.6	2.0	11.5	17.4	4.5	.4	.5	.9	41.4	58.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	1.3	1.9	7.1	22.5	66.7	462
06009	.0	.6	2.9	7.3	17.3	71.9	460
12015	.2	.8	4.3	8.9	22.3	63.5	507
18021	.7	1.6	3.1	6.4	22.6	65.6	423
TOT	6	20	58	140	396	1254	1874
PCT	.3	1.1	3.1	7.5	21.1	66.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	2.1	3.7	8.7	41.5	49.8	241
06009	2.6	3.5	11.3	33.5	55.2	230
12015	4.3	6.4	12.8	26.1	61.2	188
18021	2.5	3.4	11.0	19.5	69.5	118
TOT	22	33	84	249	444	777
PCT	2.8	4.2	10.8	32.0	57.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	1.6	.0	1.6	1.6	1.6	4	6.3
60/64	.0	.0	.0	.0	1.6	.0	6.3	9.4	11	17.2
55/59	.0	3.1	1.6	.0	1.6	12.5	4.7	10.9	22	34.4
50/44	.0	.0	1.6	.0	.0	1.6	6.3	9.4	12	18.8
45/49	.0	.0	.0	.0	4.7	4.7	3.1	1.6	9	14.1
40/44	.0	.0	.0	.0	.0	6.3	.0	.0	4	6.3
35/39	.0	.0	.0	1.6	1.6	.0	.0	.0	2	3.1
TOTAL	0	2	2	6	17	14	21	21	64	100.0
PCT	.0	3.1	3.1	3.1	9.4	26.6	21.9	32.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.6	.0	1.6	.0	1.6	.0	.0	1.6
.0	1.6	.0	.0	1.2	5.1	3.1	3.1	.0	3.1
5.5	3.5	5.5	.8	6.6	9.0	1.6	2.0	.0	.0
1.2	.0	4.3	2.0	3.1	3.1	.0	3.5	.0	1.6
1.2	2.0	1.2	2.0	.0	1.6	4.3	2.0	.0	.0
.0	1.6	.0	.0	.0	.0	.0	4.7	.0	.0
1.2	.0	.0	.0	.0	1.6	.0	.4	.0	.0
9.0	8.6	12.5	4.7	12.5	20.3	10.5	15.6	.0	6.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	69	63	54	41	37	32	53.3	462
06009	70	66	63	54	41	34	30	52.5	474
12015	66	64	61	54	40	32	28	51.8	510
18021	68	64	61	52	41	34	34	51.8	428
TOT	73	66	63	54	41	34	28	52.4	1874

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	8.0	4.0	40.0	16.0	32.0	80	25		
06009	.0	16.7	8.3	33.3	25.0	16.7	74	12		
12015	.0	9.5	9.5	14.3	19.0	47.6	82	21		
18021	.0	.0	33.3	.0	50.0	16.7	80	6		
TOT	0	6	6	17	14	21	80	64		

OCTOBER

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1959-1974AREA 0024 SOVA STRAIT W
45.5N 140.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	.1	.1	7	.0	.4
11/13	.0	.0	.0	.0	.0	.0	.1	.2	.2	.1	.1	.1	13	.0	.8
9/10	.0	.0	.0	.0	.0	.0	.1	.2	.2	.1	.0	.0	11	.1	.6
7/8	.0	.0	.0	.0	.0	.1	.2	.3	.4	.3	.2	.0	30	.1	1.7
6	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.0	5	.0	.3
5	.0	.0	.0	.0	.1	.1	.5	.4	1.0	.7	.1	.0	45	.2	2.5
4	.0	.0	.0	.0	.2	.3	.5	1.1	1.3	1.1	.0	.0	74	.1	4.3
3	.0	.0	.0	.0	.0	.1	.2	.2	.3	.2	.0	.1	19	.0	1.1
2	.0	.0	.0	.1	.1	.7	1.5	1.8	2.2	1.4	.2	.0	136	.3	7.8
1	.0	.0	.0	.0	.0	.1	.3	.7	.2	.5	.1	.0	32	.0	1.9
0	.0	.0	.0	.1	.2	1.4	1.1	3.4	2.6	2.2	.1	.0	185	.3	10.7
-1	.0	.0	.0	.1	.0	.4	.4	.5	.6	.0	.0	.0	31	.1	1.8
-2	.0	.0	.0	.1	.7	2.0	2.6	3.5	2.6	1.5	.1	.0	219	.1	12.9
-3	.0	.0	.0	.1	.0	.6	.3	.4	.4	.1	.0	.0	31	.0	1.8
-4	.0	.0	.0	.1	.7	1.7	2.7	2.6	2.1	1.0	.1	.0	183	.2	10.7
-5	.0	.0	.1	.4	.6	1.9	2.2	3.5	1.8	.2	.0	.0	179	.2	10.4
-6	.0	.0	.0	.1	.2	.7	.4	.8	.1	.1	.0	.0	39	.0	2.3
-7/-2	.0	.1	.2	.2	.9	2.6	2.0	2.3	.6	.0	.0	.0	148	.1	8.8
-9/-10	.0	.0	.1	.5	.5	1.7	1.8	1.8	.4	.1	.0	.0	113	.0	6.7
-11/-13	.0	.1	.1	1.0	1.2	2.5	.9	.7	.2	.0	.0	.0	111	.2	6.4
-14/-16	.0	.1	.2	.2	1.0	1.0	.2	.0	.0	.0	.0	.0	46	.0	2.7
-17/-19	.0	.1	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	12	.0	.7
-20/-22	.1	.1	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	10	.0	.6
TOTAL	1	9	13	51	112	302	411	287	168	3	1679	30	100.0	1.8	98.2
PCT	.1	.5	.8	3.0	6.7	18.0	18.2	24.5	17.1	10.0	1.0	.2	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.6	.0	.0	.0	.0	.9	.0	.4	.0	.0	.0	.0	.4
1-2	.2	.9	.6	.0	.0	.0	1.6	.0	1.6	.9	.0	.0	.0	2.5
3-4	.0	.6	1.3	.0	.0	.0	1.9	.0	.5	1.1	.2	.0	.0	1.7
5-6	.0	.0	1.0	.3	.0	.0	1.2	.0	.0	.6	.2	.0	.0	.8
7	.0	.1	.6	.5	.2	.0	1.4	.0	.2	.2	.4	.0	.0	.8
8-9	.0	.0	.1	.3	.0	.0	.5	.0	.0	.2	.2	.0	.0	.3
10-11	.0	.0	.1	.3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.2	3.7	2.2	.2	.0	8.8	.0	2.7	3.0	1.0	.0	.0	6.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.1	.0	.0	.0	.0	.3	.0	.4	.5	.0	.0	.0	.9
1-2	.0	.7	1.0	.0	.0	.0	1.7	.0	.3	.9	.0	.0	.0	1.3
3-4	.0	.5	.1	.0	.0	.0	.6	.0	.2	.8	.0	.0	.0	.9
5-6	.0	.0	.7	.5	.3	.0	1.5	.0	.0	.0	.2	.0	.0	.3
7	.0	.0	.0	.3	.3	.0	.6	.0	.0	.0	.6	.2	.0	.7
8-9	.0	.0	.0	.5	.2	.0	.7	.0	.0	.3	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.3	2.1	1.5	.8	.0	5.9	.0	.9	2.6	.7	.3	.0	4.5

PERIOD: (OVER-ALL) 1963-1974

OCTOBER

TABLE 10 (CONT)

AREA 0024 SOYA STRAIT W
43.5N 140.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.5	.0	.0	.0	.0	.6	.2	1.2	1.4	.0	.0	.0	1.7	
1-2	.0	1.1	1.4	.0	.0	.0	2.5	.2	1.7	3.1	.0	.0	.0	5.0	
3-4	.0	.5	1.3	.0	.0	.0	1.8	.0	1.5	4.8	.0	.0	.0	6.8	
5-6	.0	.0	.3	.6	.0	.0	.9	.0	.0	3.2	1.9	.0	.0	5.1	
7	.0	.0	.6	.3	.0	.0	.9	.0	.0	.7	.8	.2	.0	2.0	
8-9	.0	.0	.0	.0	.3	.0	.3	.0	.0	.6	.2	.0	.0	1.4	
10-11	.0	.0	.2	.3	.2	.0	.6	.0	.0	.5	.2	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.9	
13-16	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.1	3.7	1.4	.5	.0	7.8	.3	4.6	13.7	4.3	.7	.0	23.6	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.8	.3	.0	.0	.0	1.2	.3	1.2	.0	.0	.0	.0	.5	
1-2	.0	1.2	2.1	.0	.0	.0	3.4	.0	1.8	1.8	.0	.0	.0	3.6	
3-4	.0	1.2	3.8	.8	.0	.0	5.8	.0	.8	2.0	.9	.0	.0	3.6	
5-6	.0	.2	4.1	1.2	.0	.0	5.5	.0	.5	1.4	.8	.0	.0	2.7	
7	.0	.3	1.9	1.9	.3	.0	4.5	.0	.2	1.2	1.8	.0	.0	3.3	
8-9	.0	.0	.5	1.5	.0	.0	2.0	.0	.0	.2	.2	.0	.0	.3	
10-11	.0	.0	.6	.6	.0	.0	1.2	.0	.0	.3	.2	.3	.0	.9	
12	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.2	.3	.0	.0	.5	.0	.2	.0	.0	.2	.0	.3	
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	3.7	13.5	6.5	.5	.0	24.4	.3	3.6	6.8	4.0	.5	.0	15.2	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.3	4.1	1.2	.0	.0	.0	9.6	
1-2	.3	9.5	11.9	.0	.0	.0	21.6	
3-4	.0	5.7	15.1	2.4	.0	.0	23.2	
5-6	.0	.7	11.3	5.7	.3	.0	18.0	
7	.0	1.0	5.3	6.5	1.2	.0	14.1	
8-9	.0	.0	1.9	3.3	.7	.0	5.8	
10-11	.0	.0	1.7	1.7	.5	.0	4.0	
12	.0	.2	.0	.2	.2	.0	.5	
13-16	.0	.0	.5	1.2	.3	.0	2.1	
17-19	.0	.0	.2	.3	.2	.0	.7	
20-22	.0	.0	.0	.2	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.2	.0	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.6	21.1	49.1	21.6	3.4	.0	100.0	582

PERIOD: (OVER-ALL) 1949-1974

TABLE 10

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	10.8	12.9	9.4	6.1	1.5	1.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	343	4
6-7	.0	.5	3.4	3.6	3.4	3.4	1.4	.1	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	132	6
8-9	.0	.3	.5	1.5	1.6	1.0	1.3	.3	.5	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	98	8
10-11	.0	.3	.1	.1	1.0	.6	.4	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	8
12-13	.0	.0	.4	.1	.3	.1	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	8
15-19	.0	.0	.0	.3	.0	.1	.1	.0	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	8	13
INDEX	4.1	6.5	5.9	4.5	4.4	4.4	1.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	222	4
TOTAL	42	146	185	156	184	57	44	8	17	6	1	1	1	0	0	0	0	0	0	798	5
PCT	5.3	18.3	23.2	19.5	16.8	7.1	5.5	1.0	2.1	.8	.1	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1933-1974AREA 0024 SOYA STRAIT W
45.5N 140.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	3.6	.6	1.1	.6	22.3	.0	.6	28.7	3.9	.0	.9	.0	.0	.0	66.5
NE	10.6	.0	1.8	.4	12.8	.0	.7	24.8	5.0	.0	1.4	.0	1.4	.4	67.0
E	16.1	.0	2.7	1.3	6.3	.0	.0	26.5	3.6	.0	1.8	.0	.0	1.3	66.8
SE	10.8	.0	2.4	.0	8.4	.0	.0	21.6	.0	.0	.0	.0	.0	.0	78.4
S	12.0	1.3	3.6	.0	4.2	.0	.0	21.0	1.0	.0	1.3	3.6	.0	.0	73.1
SW	4.9	.5	2.3	.0	3.9	.0	.0	10.6	2.8	.0	2.2	.1	.7	.5	83.1
W	2.4	.2	.7	.0	.6	.0	.0	11.9	1.3	.0	.8	.0	1.2	.0	84.7
NW	2.8	.3	.3	.0	19.3	.0	.1	22.5	3.9	.0	.4	.0	.1	.0	73.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	4.8	.4	1.2	.2	12.4	.0	.2	18.8	2.8	.0	1.0	.2	.5	.2	76.6
TOT OBS:	1333														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	4.8	.5	.8	.0	11.6	.0	.0	17.5	3.5	.0	1.6	.0	.3	.0	77.2
0600	3.7	.3	.8	.6	13.2	.0	.0	18.3	3.4	.0	.8	.0	.6	.3	76.7
1200	6.6	.5	2.2	.0	11.8	.0	.0	20.9	3.6	.0	1.1	.8	.8	.3	72.5
1800	4.8	.0	.7	.0	11.9	.0	.7	17.7	1.0	.0	.7	.3	.3	.0	79.9
TOT PCT	5.0	.4	1.2	.1	12.1	.0	.1	18.6	3.0	.0	1.1	.3	.5	.1	76.4
TOT OBS:	1385														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	2.8	5.6	3.4	.6	.0		12.8	17.9		13.6	13.4	12.4	11.6	7.9	12.6	13.2	17.5
NE	.3	1.8	2.2	1.0	.4	.0		5.8	15.4		4.7	5.6	5.9	4.1	6.6	5.4	7.6	6.9
E	.3	1.9	1.1	.7	.0	.0		4.1	12.2		4.9	6.0	2.4	2.4	2.9	2.5	4.0	7.8
SE	.2	2.4	.8	.2	.0	.0		3.6	10.0		1.4	3.2	.6	2.0	1.1	7.5	2.2	8.9
S	.3	1.4	2.9	.9	.2	.0		5.7	15.2		5.9	5.6	3.6	5.1	5.5	7.8	5.4	6.7
SW	.2	2.9	7.1	3.3	.6	.0		14.1	17.3		12.6	11.2	14.9	15.6	14.8	18.3	16.5	9.9
W	.4	3.9	12.4	8.3	1.1	.0		26.1	18.8		21.7	26.1	30.3	31.0	33.6	20.5	29.9	15.7
NW	.1	4.5	11.9	8.9	1.6	.0		27.1	19.5		34.6	26.9	29.3	27.6	22.8	24.8	21.2	26.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0		.5	.0	.6	.7	2.8	.6	.0	.0
TOT OBS	38	280	567	343	59	0	1287		17.5		198	134	174	147	181	161	112	160
TOT PCT	3.0	21.8	44.1	26.7	4.6	.0	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.5	3.9	5.3	2.0	.1			12.8	17.9	13.6	12.0	10.1	15.8
NE	1.4	2.1	1.6	.5	.2			5.8	15.4	5.0	5.1	6.1	7.2
E	1.3	1.4	1.1	.2	.0			4.1	12.2	5.3	2.4	2.7	6.3
SE	1.2	1.9	.5	.0	.0			3.6	10.0	2.9	1.2	4.1	6.3
S	1.0	2.2	2.2	.2	.1			5.7	15.2	5.8	4.3	6.6	6.2
SW	1.0	6.0	5.3	1.6	.2			14.1	17.3	12.0	15.3	16.4	12.4
W	1.7	9.1	11.8	3.2	.3			26.1	18.8	23.5	30.6	28.5	21.1
NW	1.5	8.8	11.8	4.8	.2			27.1	19.5	31.5	28.5	23.8	24.6
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0	.3	.6	1.8	.0
TOT OBS	147	456	308	160	16	1287		17.5		332	321	342	292
TOT PCT	11.4	35.4	23.9	12.4	1.2	100.0				100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1933-1974

AREA 0024 SOVA STRAIT W
45.5N 140.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.3	.9	20.8	45.8	26.8	5.4	.0	18.1	100.0	332
06009	.6	2.2	18.4	48.3	27.7	2.8	.0	17.7	100.0	321
12015	1.8	1.8	23.1	39.8	27.5	6.1	.0	17.8	100.0	342
18021	1.0	4.5	25.0	42.5	24.3	3.8	.0	16.4	100.0	292
TOT	9	29	280	567	349	39	0	17.5		1387
PCT	.7	2.3	21.8	44.1	26.7	4.6	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	1.1	2.9	4.9		6.2
NE	.4	.4	1.2	3.5		6.7
E	.3	.5	.6	2.7		6.7
SE	.2	.2	.9	.6		5.4
S	.9	.5	1.5	1.8		5.6
SW	3.7	1.7	2.8	4.9		4.8
W	9.9	4.4	11.3	6.1		4.4
NW	5.9	2.5	10.5	9.9		5.4
VAR	.0	.0	.0	.0		.0
CALM	.6	.3	.2	.0		1.8
TOT OBS	14.7	7.9	19.8	21.8	636	5.2
TOT PCT	23.1	11.5	31.1	34.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT+NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ 9999	NM <5/8 ANY HGT	TOTAL OBS
N	.4	.1	.0	.7	2.9	2.4	.4	.0	.0	.3	2.8	
NE	.9	.0	.0	.0	1.5	1.5	.5	.0	.2	.0	1.0	
E	.2	.0	.0	.2	1.1	1.3	.3	.0	.0	.2	.7	
SE	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	
S	.3	.0	.1	.5	.7	.9	.5	.0	.1	.0	1.6	
SW	.5	.0	.2	.3	2.1	3.9	.3	.0	.0	.0	5.6	
W	1.0	.2	.6	1.5	4.0	6.4	1.5	.4	.3	.2	13.6	
NW	2.8	.0	.3	.6	5.7	6.8	2.6	.4	.2	.2	9.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.9	
TOT OBS	39	2	8	25	115	149	60	5	5	5	243	636
TOT PCT	6.1	.3	1.3	3.9	18.1	23.4	6.3	.8	.8	.8	38.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.5	1.8	2.0	2.1	2.1	2.1	2.1	2.1
>6000	2.3	2.6	2.7	2.9	2.9	2.9	2.9	2.9
>5500	6.3	8.0	8.9	9.0	9.0	9.0	9.0	9.0
>5000	20.5	28.4	31.7	32.4	32.6	32.6	32.7	32.7
>4500	27.1	41.3	46.9	48.4	48.9	49.3	49.9	49.9
>4000	30.5	43.7	50.1	52.0	52.6	53.1	53.8	53.8
>3500	30.5	44.3	51.1	53.1	53.8	54.3	55.1	55.1
>3000	30.6	44.6	51.4	53.4	54.1	54.6	55.4	55.4
>2500	31.7	46.8	54.9	57.3	58.8	60.3	61.7	61.7
TOTAL	210	310	364	380	390	400	409	409

TOTAL NUMBER OF OBS: 663

PCT FREQ NM <5/8: 38.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 DBSCD	TOTAL OBS
14.7	4.7	6.9	5.6	5.1	8.2	10.0	11.3	27.9	720

NOVEMBER

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1933-1974

AREA 0024 SDVA STRAIT W
43.3N 140.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	.2	.2	.1	.0	.1	.2	.6	.0	.0	2.2	
	NO PCP	.0	.1	.0	.0	.0	.1	.1	.1	.0	.0	.4	
	TOT %	.7	.3	.2	.1	.0	.2	.3	.8	.0	.0	2.6	
1/2<1	PCP	.1	.1	.0	*	.1	*	.3	1.0	.0	.0	1.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.0	*	.1	*	.3	1.0	.0	.0	1.6	
1<2	PCP	.8	.3	.2	.1	.2	.1	.8	1.1	.0	.0	3.7	
	NO PCP	.1	.1	.0	.0	.0	.0	.3	.1	.0	.0	.5	
	TOT %	.8	.4	.2	.1	.2	.1	1.1	1.2	.0	.0	4.2	
2<5	PCP	1.1	.3	.3	.2	.3	.4	1.3	2.2	.0	.0	6.1	
	NO PCP	.9	.2	.1	.0	.3	.9	1.2	1.2	.0	.0	4.4	
	TOT %	1.8	.4	.4	.2	.6	1.3	2.5	3.4	.0	.0	10.5	
5<10	PCP	.9	.2	.2	.1	.4	.6	.5	1.1	.0	.0	3.7	
	NO PCP	3.0	.8	.4	.4	1.1	3.6	5.0	5.3	.0	.1	20.3	
	TOT %	3.9	1.0	1.0	.6	1.5	4.2	5.6	6.5	.0	.1	23.9	
10+	PCP	.2	.2	.1	.1	.2	.2	.3	.5	.0	.0	1.9	
	NO PCP	5.0	2.8	2.1	2.0	3.2	7.7	17.2	14.7	.0	.5	59.2	
	TOT %	5.9	3.0	2.2	2.1	3.4	7.9	17.5	15.2	.0	.5	57.1	
TOT OBS													
TOT PCT													
		12.1	5.3	4.1	3.1	5.7	13.7	27.2	28.0	.0	.7	100.0	1337

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	.1	.1	.0	.0	.0	*	.0	.0	.2	
	11-21	.3	.1	.2	.0	.0	*	.3	.3	.0	.0	1.3	
	22+	.3	.2	.0	.0	.0	.1	.2	.3	.0	.0	1.1	
	TOT %	.7	.3	.2	.1	.0	.1	.3	.7	.0	.0	2.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.0	.0	.0	.0	.2	.0	.0	.3	
	11-21	.1	.1	.0	.0	.1	.0	.0	.2	.0	.0	.5	
	22+	.2	*	.0	*	.1	.1	.1	.4	.0	.0	.9	
	TOT %	.2	.2	.1	*	.2	.1	.1	.8	.0	.0	1.7	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.2	.2	.1	.2	.1	*	.1	.0	.0	.0	.8	
	11-21	.5	.1	*	*	.1	.2	.6	.2	.0	.0	1.8	
	22+	.4	.2	.0	.0	.1	.2	.6	1.0	.0	.0	2.5	
	TOT %	1.0	.4	.2	.4	.3	.4	1.2	1.3	.0	.0	5.2	
2<5	0-3	.0	.3	*	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.4	.2	.1	.2	.2	.0	.3	.5	.0	.0	1.9	
	11-21	.9	.1	.2	*	.4	1.2	1.3	1.5	.0	.0	5.5	
	22+	1.0	.2	*	*	.1	.7	1.6	2.2	.0	.0	5.7	
	TOT %	2.3	.8	.4	.3	.7	1.8	3.1	4.1	.0	.0	13.5	
5<10	0-3	.1	.0	.1	.0	.0	.1	.1	.0	.0	.2	.5	
	4-10	.7	.1	.4	.4	.2	.9	.3	.7	.0	.0	3.9	
	11-21	1.6	.5	*	.2	1.0	1.5	2.2	2.8	.0	.0	9.8	
	22+	1.0	.4	.5	*	.4	1.6	2.1	2.5	.0	.0	8.6	
	TOT %	3.4	1.0	1.0	.6	1.5	4.2	4.9	6.0	.0	.2	22.8	
10+	0-3	.3	.1	.2	.2	.3	.2	.3	.1	.0	.6	2.1	
	4-10	1.5	1.2	1.2	1.7	1.0	2.0	3.0	3.2	.0	.0	14.7	
	11-21	2.3	1.4	.7	.4	1.4	4.2	8.2	6.8	.0	.0	25.3	
	22+	1.1	.5	.2	.1	.4	1.0	4.8	3.9	.0	.0	12.0	
	TOT %	5.2	3.2	2.2	2.3	3.1	7.4	16.3	14.0	.0	.6	54.2	
TOT OBS													
TOT PCT													
		12.8	5.9	4.2	3.6	5.8	14.0	26.0	26.9	.0	.7	100.0	1271

NOVEMBER

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1933-1974AREA 0024 SOYA STRAIT W
45.5N 140.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	180 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	2.7	.5	2.7	3.6	20.5	24.1	7.7	.9	1.4	2.3	66.4	33.6	220
06009	4.0	.5	.5	5.4	18.3	28.2	6.4	1.0	2.0	.5	66.8	33.2	202
12015	12.0	.0	.0	4.4	13.9	19.6	3.2	.0	.6	.0	53.8	46.2	158
18021	8.8	.0	1.0	1.0	11.8	17.6	6.9	1.0	.0	.0	48.0	52.0	102
TOT	42	2	8	27	116	159	42	5	8	6	415	267	682
PCT	6.2	.3	1.2	4.0	17.0	23.3	6.2	.7	1.2	.9	60.9	39.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.8	1.8	3.8	13.2	19.8	58.5	393
06009	2.7	1.3	5.4	10.5	21.8	57.8	372
12015	3.1	2.8	7.0	14.0	23.6	49.5	386
18021	3.5	1.9	3.1	14.8	24.8	51.9	318
TOT	44	29	74	192	329	801	1469
PCT	3.0	2.0	5.0	13.1	22.4	54.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 3+	TOTAL OBS
00003	2.8	9.6	22.5	45.0	32.6	218
06009	4.1	7.6	18.8	48.7	32.5	197
12015	12.4	12.4	28.8	30.1	41.2	153
18021	10.5	11.6	20.0	35.8	44.2	95
TOT	43	66	149	274	240	663
PCT	6.5	10.0	22.5	41.3	36.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	4.0	2.0	2.0	.0	.0	.0	5	10.0
45/49	.0	.0	.0	.0	6.0	2.0	10.0	2.0	10	20.0
40/44	.0	.0	4.0	2.0	2.0	4.0	2.0	.0	7	14.0
35/39	.0	.0	2.0	2.0	4.0	4.0	8.0	4.0	12	24.0
30/34	.0	.0	.0	2.0	2.0	6.0	.0	6.0	8	16.0
25/29	.0	.0	.0	.0	4.0	2.0	6.0	.0	6	12.0
20/24	.0	.0	.0	.0	.0	2.0	.0	2.0	2	4.0
TOTAL	0	0	9	4	10	11	13	7	50	100.0
PCT	.0	.0	10.0	8.0	20.0	22.0	26.0	14.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	6.0	4.0	.0	.0	.0
5.0	.5	2.0	.0	.0	6.5	3.5	2.5	.0	.0
.0	.0	2.0	.0	4.0	.0	8.0	.0	.0	.0
1.5	4.5	3.5	2.5	.0	.0	9.5	2.5	.0	.0
6.5	2.0	.0	.0	.0	.0	3.5	4.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	12.0	.0	.0
.0	.0	.0	.0	.0	.0	2.0	2.0	.0	.0
13.0	7.0	7.5	2.5	4.0	12.5	30.5	23.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	63	61	54	37	21	16	12	37.7	382
06009	62	59	54	37	23	19	16	38.0	368
12015	59	58	54	38	23	18	14	38.5	383
18021	64	57	54	37	23	18	14	38.2	312
TOT	64	59	54	37	23	18	12	38.1	1445

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	23.5	17.6	11.8	41.2	5.9	73	17		
06009	.0	18.8	25.0	12.5	37.5	6.3	72	16		
12015	.0	14.3	28.6	28.6	.0	28.6	73	7		
18021	.0	10.0	10.0	50.0	.0	30.0	77	10		
TOT	0	9	10	11	13	7	73	50		

NOVEMBER

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1933-1974AREA 0024 SOVA STRAIT W
45.5N 140.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	23 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	N FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.0	.1	5	.0	.4
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.2	.2	.0	.0	7	.0	.5
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.5	.2	.0	.0	13	.0	1.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	3	.0	.2
5	.0	.0	.0	.0	.0	.0	.0	.1	.1	.4	.2	.2	.0	.1	14	.1	1.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.8	.5	.2	.2	34	.0	2.6
3	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2	.0	.0	.0	5	.0	.4
2	.0	.0	.0	.0	.0	.0	.2	.2	.6	1.3	.5	.2	.3	.1	43	.1	3.2
1	.0	.0	.0	.0	.0	.0	.0	.1	.5	.2	.1	.1	.0	.0	13	.1	.9
0	.0	.0	.0	.0	.0	.3	.5	.5	1.5	1.6	.9	.8	.8	.1	91	.2	6.8
-1	.0	.0	.0	.0	.0	.1	.2	.5	.5	.5	.1	.2	.0	.0	28	.1	2.1
-2	.0	.0	.0	.0	.0	.1	.8	1.6	1.2	1.7	.8	.6	.2	.0	91	.0	7.0
-3	.0	.0	.0	.0	.0	.2	.2	.3	.3	.1	.1	.0	.1	.0	16	.1	1.2
-4	.0	.0	.0	.0	.0	.5	.6	1.5	1.7	2.0	1.0	.6	.0	.0	102	.0	7.9
-5	.0	.0	.0	.0	.1	1.1	1.1	2.1	1.3	1.7	.8	.3	.1	.0	111	.1	8.5
-6	.0	.0	.0	.0	.0	.2	.1	.2	.4	.2	.2	.0	.0	.0	15	.0	1.2
-7/-8	.0	.0	.0	.0	.4	.9	1.8	2.3	1.2	2.2	.2	.1	.0	.0	119	.2	9.0
-9/-10	.0	.0	.0	.1	1.2	1.5	1.9	1.5	1.4	1.4	.0	.0	.0	.0	111	.0	8.6
-11/-13	.0	.0	.0	.6	3.2	2.1	2.7	2.0	1.5	.6	.1	.1	.0	.0	167	.1	12.8
-14/-16	.0	.0	.2	1.1	1.9	2.8	2.2	1.5	.6	.2	.1	.0	.0	.0	137	.1	10.5
-17/-19	.0	.0	.2	1.0	1.7	1.2	.5	.2	.0	.2	.0	.0	.0	.0	66	.0	5.1
-20/-22	.0	.1	.3	1.0	.6	1.2	.2	.0	.0	.0	.0	.0	.0	.0	43	.1	3.2
-23/-25	.0	.2	.2	.9	.8	.2	.0	.1	.0	.0	.0	.0	.0	.0	30	.1	2.2
-26/-30	.0	.1	.3	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	20	.0	1.5
<-30	.1	.3	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	12	.0	.9
TOTAL	1	8	22	70	133	161	161	190	202	87	57	22	7	1297	15	1282	
PCT	.1	.6	1.7	5.4	10.3	12.4	12.4	14.6	13.6	15.6	6.7	4.4	1.7	.5	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.5	.1	.0	.0	.0	.7	.0	.6	.*	.0	.0	.0	.7
1-2	.0	.5	.7	.0	.0	.0	1.2	.0	.*	1.0	.0	.0	.0	1.1
3-4	.0	.5	1.1	.2	.0	.0	1.9	.0	.4	.8	.4	.0	.0	1.7
5-6	.0	.2	.9	.5	.0	.0	1.6	.0	.2	.8	.4	.0	.0	1.5
7	.0	.0	.9	.8	.3	.0	2.0	.0	.0	.2	.2	.*	.0	.5
8-9	.0	.0	.3	.7	.0	.0	1.0	.0	.2	.*	.3	.0	.0	.5
10-11	.0	.0	.3	.4	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.1	.0	.3	.0	.0	.0	.0	.*	.0	.*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	.0	.0	.*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.*	.0	.0	.*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	4.4	3.0	.5	.0	9.6	.0	1.5	3.0	1.5	.1	.0	6.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.2	.0	.0	.0	.0	.4	.2	.0	.0	.0	.0	.0	.2
1-2	.0	.2	.2	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.6	.3	.0	.0	.9	.0	.0	.*	.*	.0	.0	.1
5-6	.0	.0	.4	.3	.0	.0	.7	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.4	1.2	1.3	.0	.0	3.1	.2	.4	.3	.*	.0	.0	1.0

PERIOD: (OVER-ALL) 1963-1974

NOVEMBER

AREA 0024 SOYA STRAIT W
45.5N 140.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4
1-2	.0	.4	2.0	.0	.0	.0	2.4	.0	.2	1.2	.0	.0	.0	.0	1.4
3-4	.0	.0	.8	.0	.0	.0	.8	.0	1.0	2.4	.7	.0	.0	.0	4.1
5-6	.0	.2	1.0	.1	.0	.0	1.3	.0	.2	1.5	1.3	.2	.0	.0	3.2
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.5	1.1	.3	.0	.0	1.9
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	1.1	.6	.2	.0	.0	2.0
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.0	.4	.2	.0	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	4.1	.3	.2	.0	5.2	.2	1.8	7.1	4.8	.7	.0	.0	14.6

HGT	H							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.4	.6	.2	.0	.0	.0	1.2	.0	.2	.2	.0	.0	.0	.0	.4	
1-2	.0	1.6	2.7	.0	.0	.0	4.3	.0	.2	1.0	.0	.0	.0	.0	1.2	
3-4	.0	.3	4.6	.9	.0	.0	5.9	.0	.8	4.6	1.6	.0	.0	.0	6.9	
5-6	.0	.3	1.5	3.7	.1	.0	5.7	.0	.9	3.5	2.1	.0	.0	.0	6.5	
7	.0	.0	1.6	2.3	.3	.0	4.2	.0	.0	1.7	2.1	.0	.0	.0	3.8	
8-9	.0	.0	2.1	2.3	.0	.0	4.4	.0	.2	1.2	2.2	.6	.0	.0	4.2	
10-11	.0	.0	1.1	1.1	.5	.0	2.7	.0	.0	1.1	1.4	.2	.0	.0	2.7	
12	.0	.0	.3	.8	.6	.0	1.7	.0	.0	.0	.6	.2	.0	.0	.8	
13-16	.0	.0	.0	.4	.2	.0	.6	.0	.0	.2	.0	.6	.0	.0	.8	
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.2	.0	.0	.0	.4	
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	2.9	14.2	11.9	1.7	.0	31.0	.0	2.3	13.8	10.2	1.7	.0	.0	27.9	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.4	2.5	.6	.0	.0	.0	5.5	
1-2	.0	3.5	8.8	.0	.0	.0	12.4	
3-4	.0	3.1	14.9	4.1	.0	.0	22.2	
5-6	.0	2.2	9.8	8.6	.4	.0	21.0	
7	.0	.0	4.9	6.7	1.0	.0	12.5	
8-9	.0	.4	5.1	6.3	.8	.0	12.5	
10-11	.0	.0	2.9	3.3	1.0	.0	7.3	
12	.0	.0	.4	1.8	1.0	.0	3.1	
13-16	.0	.2	.2	1.4	.8	.0	2.5	
17-19	.0	.0	.2	.4	.0	.0	.6	
20-22	.0	.0	.0	.4	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.4	12.0	47.8	32.9	4.9	.0	100.0	510

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.1	5.3	9.8	9.4	4.5	2.4	2.7	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	252	5
6-7	.0	1.3	1.8	3.9	4.8	4.3	2.8	.6	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	144	7
8-9	.0	.3	.1	1.1	2.1	2.1	1.8	.6	1.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	70	9
10-11	.0	.7	.6	.4	.8	.4	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
12-13	.0	.0	.3	.3	.1	.4	.4	.1	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	15	10
>13	.0	.0	.0	.0	.0	.1	.0	.3	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	7	15
INDET	1.8	3.2	7.0	6.0	3.2	3.9	.8	1.0	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	202	5
TOTAL	14	77	140	151	111	98	63	22	27	7	4	1	0	0	0	0	0	0	0	715	6
PCT	2.0	10.8	19.6	21.1	15.5	13.7	8.8	3.1	3.8	1.0	.6	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1908-1973

DECEMBER

AREA 0024 SOVA STRAIT W
45.0N 140.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.8	.0	.0	.0	38.4	.0	.6	41.2	7.2	.0	.5	.0	.0	.0	51.1
NE	2.9	1.3	.0	.0	35.8	.0	.0	38.8	3.9	1.3	2.6	.0	.0	.0	53.4
E	5.7	.0	.0	.0	47.9	.0	.0	53.6	6.8	.0	2.1	.0	.0	.0	37.5
SE	5.8	.0	.0	.0	17.4	.0	.0	23.3	20.9	.0	.0	.0	.0	.0	55.8
S	9.7	3.0	3.0	.0	16.4	.0	.0	32.1	3.0	.0	3.0	.0	3.0	.0	59.0
SW	1.7	.0	.0	2.3	15.1	.0	.0	19.1	2.3	.0	.6	1.1	1.1	.0	75.7
W	.8	.4	.0	.0	31.0	.0	.0	31.8	2.3	.0	2.4	.0	.4	.0	83.2
NW	.9	.0	.4	.0	28.5	.0	.0	29.8	4.2	.0	1.3	.0	.0	.0	84.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	14.3	.0	.0	14.3	7.1	.0	21.4	.0	.0	.0	57.1
TOT PCT	2.0	.3	.2	.2	30.2	.0	.1	32.8	4.5	.1	1.8	.1	.3	.0	60.3
TOT OBS:	976														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.4	.0	.0	.0	32.5	.0	.3	34.9	5.8	.0	3.7	.0	.0	.3	55.3
06009	2.3	.4	.4	.4	28.6	.0	.0	31.6	3.8	.4	1.5	.0	.0	.0	62.8
12015	1.1	.4	.4	.4	31.8	.0	.0	34.1	3.4	.0	1.1	.4	1.1	.0	59.8
18021	2.8	.5	.0	.0	29.9	.0	.0	32.7	4.2	.0	.9	.0	.0	.0	62.1
TOT PCT	2.1	.3	.2	.2	30.8	.0	.1	33.4	4.3	.1	1.9	.1	.3	.1	59.8
TOT OBS:	1039														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.2	3.0	6.7	4.9	1.8	.1		16.6	20.3	16.1	17.7	24.1	12.3	14.0	14.3	18.0	13.3
NE	.1	1.8	3.5	1.6	.7	.0		7.7	18.6	7.4	10.8	7.8	6.2	9.2	3.8	11.0	3.9
E	.1	1.0	1.8	.8	.3	.0		4.0	17.3	5.6	3.2	1.9	3.7	4.3	3.3	2.5	7.2
SE	.1	.7	.8	.4	.0	.0		2.0	14.1	2.3	1.9	.0	.6	1.2	3.8	1.8	5.6
S	.2	.9	1.2	.5	.1	.0		2.9	14.9	1.4	4.4	2.6	.6	5.8	2.7	2.5	3.3
SW	.0	1.9	4.4	1.6	.3	.0		8.3	16.9	7.9	9.5	7.2	9.9	10.3	6.0	9.9	5.6
W	.2	3.3	13.3	8.9	.9	.0		26.6	19.2	24.3	27.5	26.9	32.1	26.2	29.7	25.2	23.9
NW	.3	4.4	13.8	10.3	2.3	.1		31.2	20.0	32.7	25.0	29.5	34.6	28.3	36.3	28.2	33.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0	2.3	.0	.0	.0	.7	.0	.0	.0
TOT OBS	18	156	418	266	58	2	918		19.0	175	79	145	81	146	91	111	90
TOT PCT	2.0	17.0	45.5	29.0	6.3	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00					06	12	18	21	
										00	06	12	18	21
N	1.3	5.1	6.3	3.1	.8		16.6	20.3	16.6	19.9	14.1	15.9		
NE	.9	2.4	3.1	1.1	.3		7.7	18.6	8.3	7.2	7.2	7.8		
E	.5	1.4	1.6	.5	.0		4.0	17.3	4.8	2.5	3.9	4.6		
SE	.4	.8	.8	.0	.0		2.0	14.1	2.2	.2	2.2	3.5		
S	.6	1.4	.7	.3	.0		2.9	14.9	2.4	1.9	4.6	2.9		
SW	.5	3.8	3.1	.8	.1		8.3	16.9	8.4	8.2	8.6	8.0		
W	1.4	8.3	13.2	3.7	.1		26.6	19.2	25.3	28.8	27.5	24.6		
NW	1.6	9.6	14.0	5.1	.9		31.2	20.0	30.3	31.3	31.3	32.2		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	.7						.7	.0	1.6	.0	.4	.5		
TOT OBS	72	300	392	135	19	918		19.0	254	226	237	201		
TOT PCT	7.8	32.7	42.7	14.7	2.1		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1908-1973

DECEMBER

AREA 0024 SOVA STRAIT W
45.0N 140.4E

TABLE 4
PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000Z	1.6	1.2	17.3	44.9	26.7	6.3	.0	18.8	100.0	254
0600Z	.0	.9	12.8	45.6	32.7	8.0	.0	20.5	100.0	226
1201Z	.4	2.1	16.9	45.6	27.8	6.8	.4	18.8	100.0	237
1802Z	.5	1.0	21.4	46.3	26.4	4.0	.3	17.7	100.0	201
TOT	6	12	156	418	266	58	2	19.0		918
PCT	.7	1.3	17.0	45.5	29.0	6.3	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.8	5.9	9.4		6.6
NE	.6	.2	1.2	5.6		7.1
E	.2	.0	1.0	3.9		7.4
SE	.2	.2	.9	.8		6.1
S	2.3	.5	.8	2.0		6.4
SW	2.5	.4	3.7	3.2		5.3
W	5.1	2.2	9.8	9.0		5.6
NW	7.2	2.7	6.5	9.8		5.1
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.9	.4		4.5
TOT OBS	102	40	173	248	563	5.8
TOT PCT	18.1	7.1	30.7	44.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	2.6	.0	.4	.4	3.9	5.9	1.0	.2	.2	.0	.0	3.0
NE	.6	.0	.7	.8	1.9	2.0	.2	.0	.2	.0	.2	1.0
E	1.2	.0	.0	.3	.9	1.5	.3	.1	.4	.0	.4	.4
SE	.0	.2	.0	.4	.5	.2	.0	.2	.0	.0	.5	.5
S	.4	.0	.0	.1	.7	1.1	.0	.0	.1	.0	1.2	1.2
SW	.5	.0	.0	.4	2.4	1.7	.6	.4	.2	.0	3.6	3.6
W	2.0	.0	.0	1.4	5.7	6.7	.8	.4	.3	.0	6.7	6.7
NW	3.5	.0	.8	.7	4.5	3.6	1.1	.2	.4	.2	11.3	11.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0
TOT OBS	61	1	11	25	117	129	24	10	10	2	173	563
TOT PCT	10.8	.2	2.0	4.4	20.8	22.9	4.3	1.8	1.8	.4	30.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM) OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0
OR >5000	2.8	3.2	3.3	3.7	3.7	3.7	3.7	3.7
OR >3500	4.3	6.7	7.2	7.7	7.7	7.7	7.7	7.7
OR >2000	15.2	24.4	28.4	29.8	30.6	30.6	30.6	30.6
OR >1000	20.9	36.5	45.5	48.2	50.0	50.2	51.2	51.3
OR >600	21.4	37.8	48.3	51.8	54.0	54.5	55.7	55.9
OR >300	21.4	38.3	49.3	52.8	55.5	56.9	58.0	58.2
OR >150	21.6	38.6	49.7	53.2	55.9	57.2	58.4	58.5
OR >0	21.9	39.6	52.0	56.7	61.0	65.1	69.1	69.4
TOTAL	131	237	311	339	365	389	413	415

TOTAL NUMBER OF OBS: 598

PCT FREQ NM <5/8: 30.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.7	2.8	5.4	5.0	4.7	5.3	7.9	13.1	35.0	10.2	685

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1908-1973

DECEMBER

AREA 0024 SOVA STRAIT W
45.6N 140.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.9	.8	1.0	.2	.3	.5	2.6	2.6	.0	.0	9.9	
	NO PCP	.1	.0	.1	.1	.1	.0	.1	.1	.0	.0	.6	
	TOT %	2.0	.8	1.1	.3	.4	.5	2.7	2.7	.0	.0	10.5	
1/2<1	PCP	1.5	.4	.2	.0	.0	.3	.8	1.6	.0	.0	4.8	
	NO PCP	.0	.1	.1	*	.0	.1	.2	.2	.0	.0	.7	
	TOT %	1.5	.5	.3	*	.0	.4	1.0	1.8	.0	.0	5.6	
1<2	PCP	.5	.7	.2	.1	.1	.1	.9	1.6	.0	.1	4.3	
	NO PCP	.1	.0	.0	.0	.0	*	.1	.0	.0	.1	.3	
	TOT %	.6	.7	.2	.1	.1	.2	1.0	1.6	.0	.2	4.6	
2<5	PCP	1.8	.9	.6	.1	.3	.6	1.4	1.4	.0	.1	7.2	
	NO PCP	1.0	.3	.3	.2	.3	.6	.8	.9	.0	.3	4.7	
	TOT %	2.8	1.4	.9	.3	.5	1.2	2.2	2.3	.0	.4	11.9	
5<10	PCP	.4	.1	.5	.2	.4	.2	1.9	.7	.0	.0	4.3	
	NO PCP	3.8	1.6	.4	.5	1.2	1.1	4.6	7.2	.0	.3	20.8	
	TOT %	4.2	1.7	.9	.6	1.6	1.3	6.5	7.9	.0	.3	25.1	
10+	PCP	.4	.0	.1	.1	.1	.1	.9	.9	.0	.0	2.5	
	NO PCP	4.6	2.5	1.4	1.0	.7	5.3	11.8	12.0	.0	.5	39.8	
	TOT %	5.0	2.5	1.5	1.0	.8	5.4	12.7	12.9	.0	.5	42.3	
TOT OBS													972
TOT PCT		16.2	7.8	4.8	2.2	3.4	8.9	26.0	29.2	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	4-10	.2	.0	.0	.0	.0	.1	.3	.0	.0	.0	.7	
	11-21	.5	.3	.7	.2	.0	.1	1.5	1.2	.0		4.4	
	22+	1.4	.5	.5	.0	.2	*	1.1	1.7	.0		5.5	
	TOT %	2.2	.8	1.2	.2	.3	.2	3.0	2.9	.0	.0	10.8	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	4-10	.1	.2	.1	.0	.0	.0	.0	.1	.0	.0	.6	
	11-21	.6	.1	.1	*	.0	.1	.4	1.3	.0		2.7	
	22+	.7	.2	.1	.0	.0	.3	.5	.5	.0		2.3	
	TOT %	1.4	.6	.3	*	.0	.4	.9	2.0	.0	.0	5.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.4	.1	.1	.2	.3	.0	.0	.0		1.1	
	11-21	.3	.3	.0	.1	.1	.1	.4	.7	.0		2.0	
	22+	.3	.2	.2	.1	.1	*	.7	1.1	.0		2.7	
	TOT %	.7	1.0	.2	.2	.3	.4	1.1	1.7	.0	.0	5.8	
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.1	.0	.4	.7	
	4-10	.3	.1	.5	.1	.0	.3	.3	.3	.0		1.8	
	11-21	1.3	.9	.2	.1	.3	.6	1.0	1.3	.0		5.7	
	22+	1.1	.4	.0	.1	.2	.4	1.4	1.3	.0		4.9	
	TOT %	2.7	1.4	.7	.3	.4	1.3	2.7	3.0	.0	.4	13.0	
5<10	0-3	.0	.0	.0	.0	.1	.0	.1	*	.0	.0	.2	
	4-10	.9	.3	.1	.2	.5	.2	.2	.9	.0		3.3	
	11-21	2.0	.7	.2	.1	.4	.7	3.9	3.2	.0		11.2	
	22+	1.5	.6	.1	.2	.2	.3	2.7	4.2	.0		9.8	
	TOT %	4.3	1.6	.4	.5	1.2	1.2	7.0	8.3	.0	.0	24.5	
10+	0-3	.1	.1	.1	.0	.0	.0	.2	.2	.0	.2	.9	
	4-10	1.4	.6	.2	.4	.2	.8	2.5	3.1	.0		9.2	
	11-21	2.1	1.2	.7	.2	.4	3.1	6.0	6.0	.0		19.8	
	22+	1.8	.2	.1	.1	.0	.8	3.5	3.9	.0		10.4	
	TOT %	5.3	2.1	1.2	.7	.7	4.7	12.2	13.2	.0	.2	40.3	
TOT OBS													901
TOT PCT		16.7	7.4	3.9	2.0	3.0	8.2	26.9	31.1	.0	.7	100.0	

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1908-1973

DECEMBER

TABLE 10

AREA 0024 SOVA STRAIT W
45.0N 140.4E

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	10.7	.5	2.9	5.8	22.8	23.3	2.9	1.5	.0	1.0	71.4	28.6	206
06009	7.9	.0	1.7	3.4	18.6	27.7	5.1	2.8	2.3	.0	69.5	30.5	177
12015	14.8	.7	2.8	4.9	17.6	23.9	3.5	.7	2.1	.0	71.1	28.9	142
18021	13.5	.0	2.1	5.2	19.8	8.3	4.2	1.0	3.1	.0	57.3	42.7	96
TOT	70	2	15	30	124	139	24	10	10	2	426	195	621
PCT	11.3	.3	2.4	4.8	20.0	22.4	3.9	1.6	1.6	.3	66.6	31.4	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	10.8	7.8	5.2	10.5	25.8	39.9	306
06009	9.9	2.6	6.2	14.7	21.6	45.1	273
12015	11.3	5.7	7.8	13.5	25.9	35.8	282
18021	12.7	6.1	3.9	18.4	22.4	36.4	228
TOT	121	61	64	152	262	429	1089
PCT	11.1	5.6	5.9	14.0	24.1	39.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	10.6	20.7	36.4	37.4	26.3	198
06009	8.2	10.6	32.4	38.8	28.8	170
12015	13.8	22.5	34.8	37.7	27.5	138
18021	13.0	17.4	32.6	28.3	39.1	92
TOT	66	106	205	218	175	598
PCT	11.0	17.7	34.3	36.5	29.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/94	.0	.0	6.3	.0	.0	.0	.0	.0	1	6.3
45/49	.0	.0	.0	.0	6.3	12.5	.0	.0	3	18.8
40/44	.0	.0	.0	.0	.0	6.3	6.3	.0	3	18.8
35/39	.0	.0	.0	.0	.0	12.5	6.3	.0	3	18.8
30/34	.0	.0	.0	.0	.0	.0	6.3	.0	1	6.3
25/29	.0	.0	.0	6.3	6.3	.0	.0	.0	3	18.8
20/24	.0	.0	.0	6.3	.0	.0	.0	.0	2	12.5
TOTAL	.0	.0	1	2	2	5	3	3	16	100.0
PCT	.0	.0	6.3	12.5	12.5	31.3	18.8	18.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	6.3	.0	.0	.0
.0	1.6	4.7	.0	.0	.0	6.3	.0	.0	.0
.0	3.1	15.6	.0	.0	.0	.0	.0	.0	.0
.0	.0	18.8	.0	.0	.0	.0	.0	.0	.0
.0	6.3	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	10.9	7.8	.0	.0
.0	.0	.0	.0	.0	.0	6.3	6.3	.0	.0
.0	10.9	39.1	.0	.0	.0	29.7	20.3	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	52	46	41	27	14	8	3	27.6	362
06009	56	46	41	28	14	7	3	27.7	270
12015	48	45	41	28	13	5	3	27.5	277
18021	51	50	42	27	9	3	3	26.9	224
TOT	56	48	41	28	12	5	3	27.5	1073

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	50.0	25.0	25.0	.0	73	4
06009	.0	.0	.0	25.0	.0	75.0	92	4
12015	.0	.0	.0	50.0	50.0	.0	82	2
18021	.0	50.0	.0	33.3	16.7	.0	66	6
TOT	0	3	2	5	3	3	76	16

DECEMBER

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1908-1973

AREA 0024 SOYA STRAIT W
45.6N 140.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	23 26	29 32	33 36	37 40	41 44	43 46	49 52	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	2	.0	.2
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.1	5	.0	.6
4	.0	.0	.0	.0	.0	.0	.0	.1	.0	.3	.2	.1	.1	7	.0	.8
3	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	3	.0	.3
2	.0	.0	.0	.0	.0	.0	.0	.2	.1	.5	.0	.0	.0	7	.0	.8
1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	2	.0	.2
0	.0	.0	.0	.0	.0	.0	.3	.2	.5	.0	.2	.0	.0	11	.0	1.2
-1	.0	.0	.0	.0	.0	.0	.2	.1	.3	.2	.0	.1	.0	9	.0	1.0
-2	.0	.0	.0	.0	.0	.0	.0	.7	.9	.5	.5	.0	.0	30	.0	3.4
-3	.0	.0	.0	.0	.0	.1	.3	.3	.5	.2	.0	.0	.0	13	.0	1.3
-4	.0	.0	.0	.0	.0	.6	1.1	1.2	.8	.5	.3	.0	.0	40	.0	4.5
-5	.0	.0	.0	.0	.2	1.0	1.8	1.5	1.1	.7	.1	.0	.0	57	.1	6.3
-6	.0	.0	.0	.0	.0	.2	1.0	.6	.2	.1	.0	.0	.0	19	.0	2.1
-7/-8	.0	.0	.0	.0	.0	1.1	3.1	1.6	2.1	.8	.9	.0	.0	85	.1	9.5
-9/-10	.0	.0	.0	.0	.0	1.1	3.3	2.4	1.8	.2	.1	.0	.0	81	.2	8.9
-11/-13	.0	.0	.0	.0	1.2	2.8	5.5	4.4	2.3	.2	.1	.0	.0	147	.3	16.3
-14/-16	.0	.0	.2	.2	2.4	3.8	5.0	1.8	1.0	.2	.0	.0	.0	130	.3	14.4
-17/-19	.0	.0	.1	.6	1.9	2.8	2.6	.9	.2	.0	.0	.0	.0	81	.0	9.2
-20/-22	.0	.0	.7	1.8	1.4	1.2	2.1	.2	.0	.0	.0	.0	.0	66	.1	7.4
-23/-25	.0	.3	1.2	.9	1.2	1.5	.3	.0	.0	.0	.0	.0	.0	49	.1	5.4
-26/-30	.1	.6	.2	.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	15	.0	1.7
<-30	.6	.3	.5	.5	.6	.3	.0	.0	.0	.0	.0	.0	.0	24	.5	2.3
TOTAL	6	11	26	36	80	213	114	56	40	14	3			884	1.6	868
PCT	.7	1.2	2.9	4.1	9.0	15.4	24.1	16.9	12.9	6.3	4.5	1.6	.3	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.6	.2	.0	.0	.0	.8	.2	.0	.0	.0	.0	.0	.2
1-2	.2	.4	.7	.0	.0	.0	1.2	.0	.9	1.6	.0	.0	.0	2.5
3-4	.0	.8	1.5	.6	.0	.0	2.9	.0	.3	1.1	.2	.0	.0	1.6
5-6	.0	.4	2.5	1.7	.0	.0	4.6	.0	.0	.6	.8	.0	.0	1.4
7	.0	.2	1.4	1.4	.4	.0	3.5	.0	.0	.5	.2	.0	.0	.7
8-9	.0	.0	.6	1.2	.0	.0	1.8	.0	.0	.2	.3	.2	.0	.7
10-11	.0	.0	.2	.8	.2	.0	1.2	.0	.0	.0	.0	.2	.0	.2
12	.0	.0	.0	.2	.2	.0	.3	.0	.0	.0	.2	.1	.0	.3
13-16	.0	.0	.0	.8	1.1	.2	2.1	.0	.0	.0	.4	.2	.1	.7
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.4	7.0	6.9	2.4	.2	19.0	.2	1.2	4.0	2.1	.7	.1	8.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.2	.2	.0	.0	.0	.4	.0	.2	.3	.0	.0	.0	.5
3-4	.0	.0	.6	.4	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.6	.2	.0	.0	.9	.0	.0	.0	.2	.0	.0	.2
7	.0	.0	.2	.2	.0	.0	.4	.0	.0	.1	.2	.0	.0	.3
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	1.8	1.1	.0	.0	3.1	.0	.3	.5	.8	.0	.0	1.4

PERIOD: (OVER-ALL) 1963-1973

DECEMBER

AREA 0024 SOYA STRAIT W
45.6N 140.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.2	.0	.0	.0	.0	.5	.1	.9	.2	.0	.0	.0	1.1
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.6	.0	.0	.0	2.7
3-4	.0	.4	.2	.0	.0	.0	.6	.0	.1	1.3	.1	.0	.0	1.4
5-6	.0	.2	.4	.0	.0	.0	.6	.0	.0	1.2	.3	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	.3	.0	.0	1.1
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.4	.0	.0	.5
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.8	.6	.6	.0	.0	2.5	.1	2.3	5.0	1.8	.2	.0	9.3

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.2	.0	.0	.0	.0	.2	.2	.9	.3	.0	.0	.0	1.4	
1-2	.2	1.3	2.0	.0	.0	.0	3.5	.1	.5	1.7	.0	.0	.0	2.3	
3-4	.0	.2	5.6	1.8	.0	.0	7.5	.2	.4	2.9	3.0	.0	.0	6.5	
5-6	.0	.4	2.8	1.5	.0	.0	4.7	.0	.1	2.7	3.2	.6	.0	6.7	
7	.0	.0	1.4	3.4	.4	.0	5.2	.0	.0	2.4	1.6	1.1	.0	5.2	
8-9	.0	.0	1.0	1.7	.2	.0	2.8	.0	.2	.6	3.3	.3	.2	4.7	
10-11	.0	.0	.2	.6	.0	.0	.8	.0	.0	.3	.3	.4	.0	1.0	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.5	.0	.0	.7	
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.2	.3	.6	.0	1.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.1	12.9	9.3	1.0	.0	25.5	.5	2.1	11.4	12.3	3.2	.2	29.7	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.9	2.8	.6	.0	.0	.0	5.4	
1-2	.4	4.7	7.9	.0	.0	.0	13.1	
3-4	.2	2.1	13.3	6.0	.0	.0	21.7	
5-6	.0	1.1	10.9	7.9	.6	.0	20.6	
7	.0	.4	6.4	7.5	1.9	.0	16.3	
8-9	.0	.2	3.0	7.3	.6	.2	11.4	
10-11	.0	.0	.6	2.4	.9	.0	3.9	
12	.0	.0	.2	1.3	.2	.0	1.7	
13-16	.0	.0	.2	1.7	2.6	.2	4.7	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.4	.0	.0	.9	
26-32	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.6	11.4	43.3	34.8	7.5	.4	100.0	466

PERIOD: (OVER-ALL) 1960-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	7.5	9.1	9.3	3.9	2.5	.7	.1	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	231	5
6-7	.0	1.2	2.7	4.5	3.9	2.2	1.0	.6	2.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	7
8-9	.0	.0	.9	.7	1.2	1.5	1.3	.1	.9	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	49	9
10-11	.0	.0	.1	.7	1.2	.7	.9	.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	9
12-13	.0	.0	.1	.1	.1	.1	.7	.1	.1	.1	.0	.6	.1	.0	.0	.0	.0	.0	.0	17	14
>13	.0	.0	.0	.1	.4	.3	.0	.3	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	11	11
INDT	1.9	3.7	5.1	7.0	5.4	3.3	1.0	.7	1.6	.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	202	6
TOTAL	17	83	121	151	108	72	39	16	45	4	3	7	1	0	0	0	0	0	0	667	6
PCT	2.5	12.4	18.1	22.6	16.2	10.8	5.8	2.4	6.7	.6	.4	1.0	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY: 1939-1974
(OVER-ALL) 1859-1974

ANNUAL

TABLE 1

AREA 0024 SOVA STRAIT W
45.3N 140.7E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEAT
N	5.4	.3	1.3	.1	14.2	.1	.2	21.5	2.4	.0	5.0	*	.3	.2	70.6
NE	8.1	.2	2.1	*	12.2	*	.1	22.4	2.8	.1	5.6	.3	.2	.1	68.4
E	10.7	.2	2.2	.2	12.0	.0	.0	25.2	2.2	.1	7.1	.1	.3	.2	64.9
SE	9.0	.3	2.0	.0	8.7	.0	.0	20.0	3.5	*	7.4	.1	.3	.3	68.5
S	8.1	.0	1.0	.0	9.7	.0	.0	19.9	2.3	.1	10.0	.5	.5	*	66.7
SW	3.7	.2	.9	.2	5.6	.0	.0	10.2	1.4	.1	11.0	.2	.3	.5	76.3
W	2.1	.2	.5	.0	8.8	.0	.0	11.6	1.2	.1	7.7	.3	.3	*	78.8
NW	3.2	.2	1.4	*	10.9	.0	*	15.7	1.7	.1	5.8	*	.3	.1	76.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3	.0	.7	.0	6.2	.0	.0	8.2	1.0	.2	12.5	.1	.0	.1	77.9
TOT PCT	5.3	.3	1.3	*	10.7	*	*	17.5	2.0	.1	8.1	.2	.3	.1	71.8
TOT OBS: 17513															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG SNOW	DUST	NO SIG WEA
00003	5.0	.2	1.3	*	10.8	*	.1	17.3	2.3	*	8.4	.1	.3	.2	71.4	
06009	5.0	.3	1.1	.1	11.2	*	.1	17.5	2.1	.1	7.9	.2	.4	.2	71.6	
12015	5.2	.3	1.6	.1	10.6	.0	*	17.7	2.2	.1	7.1	.2	.4	.2	72.2	
18021	6.0	.3	1.3	.0	10.2	.0	.1	17.7	1.5	.1	8.8	.1	.2	*	71.6	
TOT PCT	5.3	.3	1.3	*	10.7	*	.1	17.6	2.0	.1	8.1	.2	.3	.2	71.6	
TOT OBS: 18060																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.7	4.4	5.0	2.7	.5	*		13.2	13.7	12.9	13.4	14.8	12.9	12.4	12.6	11.9	13.3
NE	.7	4.4	4.9	1.7	.3	*		12.0	13.9	12.3	11.6	11.4	10.7	12.4	11.7	14.2	11.9
E	.6	4.3	3.3	1.0	.2	.0		9.4	12.9	9.4	9.1	8.1	8.9	9.4	9.2	7.7	12.5
SE	.7	3.9	2.1	.5	.1	.0		7.2	10.7	7.1	7.3	5.5	7.0	6.1	8.2	6.3	8.9
S	.9	4.8	3.6	.8	.1	.0		10.2	12.3	11.2	10.7	10.8	8.8	10.0	9.7	8.2	10.8
SW	.9	6.1	6.0	1.9	.2	.0		15.9	13.8	13.5	16.9	15.6	18.5	15.6	16.3	16.8	14.2
W	.6	4.4	6.1	3.1	.4	.0		14.5	13.7	13.4	14.8	15.8	17.0	15.0	15.3	12.3	12.5
NW	.4	4.3	6.3	3.4	.5	*		15.0	13.4	16.3	14.9	13.9	14.9	14.3	15.6	16.9	14.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8							2.8	.0	3.9	1.2	4.0	1.3	4.8	1.3	5.7	1.4
TOT OBS							17920		13.5	2302	2067	2038	2243	2305	2759	1562	2644
TOT PCT	8.2	36.4	38.1	15.0	2.2	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	06	12	18	21
N	2.8	5.1	3.8	1.4	.2			13.2	13.7	13.2	14.0	12.6	12.9	
NE	2.8	5.2	3.1	.8	.1			12.0	13.9	11.8	11.0	12.1	12.9	
E	2.6	4.2	2.1	.4	.1			9.4	12.9	9.2	8.5	9.2	10.7	
SE	2.7	3.2	1.1	.2	*			7.2	10.7	7.3	6.3	7.2	7.9	
S	3.1	4.8	1.9	.3	*			10.2	12.3	11.0	9.8	9.9	9.9	
SW	3.3	7.6	4.2	.7	.1			15.9	13.8	15.2	17.2	16.1	15.3	
W	2.4	5.8	5.0	1.2	.1			14.5	13.7	14.0	16.4	15.1	12.5	
NW	2.1	5.9	5.3	1.5	.1			15.0	13.4	15.8	14.4	14.8	13.0	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	2.8							2.8	.0	2.6	2.5	3.0	3.0	
TOT OBS							17920		13.5	4369	4281	5064	4206	
TOT PCT	24.6	41.8	26.5	6.5	.6			100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1859-1974

ANNUAL

AREA 0024 SOVA STRAIT W
45.5N 140.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.6	4.9	34.5	40.3	15.1	2.6	.0	13.9	100.0	4369
0600	2.5	5.1	33.2	40.9	16.1	2.3	.0	14.0	100.0	4281
1200	3.0	5.4	38.5	35.6	15.3	2.2	*	13.3	100.0	5064
1800	3.0	6.3	39.6	35.9	13.4	1.8	*	12.7	100.0	4206
TOT								13.5		17920
PCT	2.8	5.4	36.4	38.1	15.0	2.2	=	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.8	1.1	4.4	5.4		5.8
NE	1.5	.8	3.5	6.0		6.3
E	1.1	.5	2.0	5.5		6.4
SE	1.0	.6	1.5	3.2		6.0
S	2.4	.9	2.4	4.8		5.7
SW	4.6	1.8	3.5	4.8		4.8
W	4.8	2.0	4.7	3.9		4.5
NW	4.4	1.7	5.2	4.1		4.7
VAR	.0	.0	.0	.0		.0
CALM	1.8	.6	1.0	1.6		4.1
TOT OBS					7406	5.3
TOT PCT	23.4	10.0	28.2	38.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.2	*	.2	.6	2.3	3.7	.8	.1	.1	.2	3.7	
NE	1.1	*	.2	.4	2.1	3.5	.9	.1	.2	.2	3.2	
E	1.1	.1	.1	.4	1.6	2.5	.5	.2	.2	.1	2.0	
SE	.7	.1	*	.2	1.1	1.4	.4	.1	.1	.1	2.0	
S	1.6	.1	.1	.3	1.4	1.9	.6	.1	.2	.1	3.9	
SW	1.7	.1	.1	.3	1.5	2.3	.8	.2	.3	.1	7.4	
W	.7	*	.1	.4	1.7	2.9	.8	.1	.1	.1	7.8	
NW	1.1	*	.1	.3	2.5	3.4	.9	.1	.1	.1	6.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7	*	*	*	.4	.7	.3	.1	.1	*	2.6	
TOT OBS	9.8	.4	1.0	2.9	14.7	22.4	5.9	1.0	1.3	1.1	39.4	7406
TOT PCT												100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.6	2.2	2.3	2.3	2.3	2.4	2.4	2.4
>5000	2.3	3.2	3.3	3.4	3.4	3.4	3.4	3.4
>3500	6.0	8.4	9.0	9.2	9.3	9.3	9.4	9.4
>2000	17.2	26.5	29.5	30.7	31.3	31.4	31.8	31.8
>1000	22.7	36.7	42.4	44.3	45.4	45.7	46.3	46.4
>800	23.5	38.3	44.7	46.9	48.1	48.6	49.2	49.3
>500	23.7	38.8	45.5	47.8	49.1	49.7	50.3	50.3
>150	23.8	39.1	45.9	48.1	49.5	50.1	50.7	50.7
>0	24.1	40.2	48.1	51.4	53.8	56.2	59.9	60.6

TOTAL NUMBER OF OBS: 7663

PCT FREQ NH <5/8: 39.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
16.2	3.9	7.8	5.5	4.7	5.5	9.6	9.5	28.1	9.2	8310

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1859-1974

ANNUAL

AREA 0024 SOYA STRAIT W
45.9N 140.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS
<1/2	PCP	.6	.3	.4	.2	.2	.2	.5	.7	.0	*	2.9	
	NN PCP	.2	.4	.3	.3	.6	1.1	.3	.2	.0	.3	3.8	
	TOT %	.8	.7	.7	.5	.9	1.2	.7	.8	.0	.3	6.7	
1/2<1	PCP	.3	.3	.2	.1	.1	.1	.3	.5	.0	*	2.3	
	NN PCP	.0	.1	.1	.1	.1	.2	.1	.1	.0	.1	.8	
	TOT %	.3	.4	.3	.2	.3	.4	.4	.5	.0	.1	3.1	
1<2	PCP	.3	.5	.4	.2	.2	.2	.3	.6	.0	*	2.9	
	NN PCP	.1	.1	.1	.1	.2	.3	.1	.1	.0	.1	1.1	
	TOT %	.6	.6	.5	.3	.4	.4	.4	.6	.0	.1	4.0	
2<5	PCP	1.0	.7	.6	.3	.4	.3	.5	.8	.0	.1	4.6	
	NN PCP	.3	.5	.4	.2	.5	.7	.4	.5	.0	.1	3.7	
	TOT %	1.4	1.1	1.0	.5	.9	1.1	.9	1.2	.0	.2	8.3	
5<10	PCP	.7	.6	.5	.3	.4	.3	.4	.6	.0	*	3.8	
	NN PCP	2.7	2.4	1.8	1.4	2.3	3.4	2.7	2.9	.0	.6	20.2	
	TOT %	3.5	3.0	2.3	1.7	2.6	3.7	3.1	3.4	.0	.6	24.0	
10+	PCP	.3	.1	.1	.1	.1	.1	.2	.3	.0	*	1.4	
	NN PCP	5.7	5.8	4.5	3.6	5.1	8.6	9.2	8.2	.0	1.7	52.5	
	TOT %	6.0	6.0	4.6	3.7	5.2	8.8	9.4	8.4	.0	1.7	53.9	
TOT DBS													
TOT PCT													
		12.9	11.8	9.4	6.9	10.4	15.6	14.9	15.1	.0	3.1	100.0	17473

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS
<1/2	0-3	.1	.1	.1	*	.1	.1	.1	*	.0	.2	.7	
	4-10	.2	.3	.3	.3	.5	.6	.3	.2	.0		2.6	
	11-21	.3	.2	.3	.1	.3	.6	.3	.3	.0		2.3	
	22+	.3	.2	.2	*	.1	.1	.2	.4	.0		1.5	
	TOT %	.9	.8	.8	.5	.9	1.4	.8	.9	.0	.2	7.2	
1/2<1	0-3	*	*	*	.1	*	*	*	*	.0	.1	.3	
	4-10	.1	.1	.1	.1	.1	.2	.1	.1	.0		.9	
	11-21	.3	.2	.1	.1	.1	.2	.1	.3	.0		1.3	
	22+	.3	.1	.1	*	*	.1	.1	.2	.0		1.0	
	TOT %	.7	.5	.3	.3	.3	.4	.4	.6	.0	.1	3.5	
1<2	0-3	*	*	*	*	*	.1	*	*	.0	.1	.3	
	4-10	.2	.2	.3	.2	.3	.2	.1	.1	.0		1.7	
	11-21	.3	.3	.2	.2	.3	.3	.2	.3	.0		1.9	
	22+	.2	.2	.2	.1	.1	.1	.2	.3	.0		1.4	
	TOT %	.8	.8	.7	.5	.6	.7	.5	.8	.0	.1	5.3	
2<5	0-3	.1	.1	.1	.1	.1	.1	.1	*	.0	.2	.7	
	4-10	.6	.4	.5	.4	.5	.6	.3	.4	.0		3.8	
	11-21	.7	.7	.5	.3	.4	.8	.5	.6	.0		4.5	
	22+	.6	.4	.3	.1	.2	.3	.4	.6	.0		2.8	
	TOT %	1.9	1.6	1.3	.9	1.2	1.7	1.3	1.7	.0	.2	11.9	
5<10	0-3	.1	.2	.1	.1	.2	.2	.1	.1	.0	.6	1.6	
	4-10	.9	1.0	.8	.8	1.0	1.2	.7	.8	.0		7.1	
	11-21	1.3	1.2	.8	.5	1.0	1.5	1.4	1.3	.0		9.0	
	22+	.9	.5	.3	.1	.3	.6	.8	1.0	.0		4.5	
	TOT %	3.3	2.8	2.0	1.6	2.4	3.5	2.9	3.3	.0	.6	22.3	
10+	0-3	.4	.4	.3	.4	.4	.4	.4	.2	.0	1.6	4.5	
	4-10	2.3	2.4	2.2	2.0	2.5	3.3	3.0	2.6	.0		20.4	
	11-21	2.1	2.2	1.5	.9	1.6	3.6	3.7	3.5	.0		19.0	
	22+	.8	.5	.3	.2	.2	.9	1.6	1.4	.0		5.9	
	TOT %	5.7	5.5	4.3	3.5	4.7	8.1	8.6	7.8	.0	1.6	49.8	
TOT DBS													
TOT PCT													
		13.2	12.0	9.4	7.2	10.1	15.8	14.6	15.0	.0	2.7	100.0	17525

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1859-1974

ANNUAL

AREA 0024 SOYA STRAIT W
45.5N 140.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	180 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL DBS	NH <5/8 ANY HGT	TOTAL DBS
0000	8.4	.4	1.5	3.2	16.4	24.8	6.8	.9	1.5	1.3	65.3	34.7	2493
0600	8.5	.5	.8	3.4	14.5	25.4	6.0	1.3	1.2	1.3	62.9	37.1	2214
1200	11.7	.4	1.0	2.5	13.2	18.4	4.6	.9	1.1	.7	54.6	45.4	1986
1800	13.0	.1	.8	2.2	11.3	15.2	5.7	.6	.9	.8	50.7	49.3	1206
TOT PCT	10.0	.4	1.1	2.9	14.4	22.0	5.9	1.0	1.3	1.1	60.0	40.0	7899 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
0000	7.7	3.2	4.2	10.7	21.6	52.6	4811
0600	7.2	3.3	5.2	10.7	20.2	53.5	4720
1200	7.1	3.6	5.8	13.1	23.2	47.2	5471
1800	7.8	3.3	5.8	12.7	24.0	46.3	4462
TOT PCT	7.4	3.4	5.2	11.8	22.2	49.9	19464 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <30YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
0000	8.3	13.9	25.4	41.7	32.9	2436
0600	8.5	11.6	24.0	40.4	35.6	2172
1200	11.9	16.1	27.1	35.6	42.4	1905
1800	13.1	15.0	26.9	28.6	44.6	1150
TOT PCT	10.0	14.0	25.7	36.7	37.6	7663 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
70/74	.0	.0	.0	.0	.2	.2	.5	.0	.9	.9
65/69	.1	.1	.4	.1	1.0	1.7	2.8	.0	6.3	6.3
60/64	.0	.1	.3	.3	.9	2.1	3.2	5.1	12.0	12.0
55/59	.2	.3	.4	.1	.2	2.3	2.4	4.0	9.9	9.9
50/54	.0	.0	1.5	.9	.4	1.1	2.6	3.3	9.3	9.3
45/49	.0	.0	.0	.4	2.0	2.8	2.8	3.9	11.8	11.8
40/44	.0	.0	.3	.4	.4	2.3	2.2	3.3	8.9	8.9
35/39	.0	.0	.4	.8	1.1	3.3	1.9	1.8	9.2	9.2
30/34	.0	.0	.0	.4	1.6	1.7	2.6	1.7	8.0	8.0
25/29	.0	.0	.2	.9	2.2	1.6	1.5	2.2	8.5	8.5
20/24	.0	.0	.0	2.4	2.3	1.1	1.1	2.7	9.6	9.6
15/19	.0	.0	.0	.4	.8	1.2	1.6	.8	4.8	4.8
10/14	.0	.0	.0	.0	.0	.6	.2	.0	.8	.8
TOTAL PCT	.3	.4	3.2	6.9	12.2	21.2	24.3	31.6	892	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.2	.2	.3	.1	.1	.0	.2	.0	.0	.0
65/69	.7	1.1	.3	.3	1.1	1.8	.5	.3	.0	.3
60/64	.5	1.7	.8	.8	1.4	4.1	.8	1.1	.0	.7
55/59	1.0	1.7	1.7	.7	1.3	1.7	.8	.7	.0	.2
50/54	.2	.8	1.4	.7	1.4	1.6	1.8	1.0	.0	.3
45/49	1.2	1.6	1.4	1.1	1.1	1.9	1.8	1.3	.0	.4
40/44	.6	1.3	1.9	.6	1.5	.7	1.1	.7	.0	.3
35/39	.8	.9	2.4	.7	.8	1.1	1.8	.7	.0	.1
30/34	1.0	2.3	1.1	1.0	.2	.7	.9	.9	.0	.0
25/29	.8	.7	.7	.7	.3	.8	1.3	2.9	.0	.2
20/24	2.9	.5	.3	.4	.2	.2	1.5	3.4	.0	.0
15/19	1.1	.5	.0	.2	.0	.0	.3	2.8	.0	.0
10/14	.2	.0	.0	.0	.0	.2	.0	.4	.0	.0
TOTAL	11.1	13.3	12.2	7.2	9.5	14.7	19.1	16.3	.0	2.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
0000	82	60	55	45	34	28	3	49.3	4815
0600	84	60	55	45	33	29	3	49.6	4666
1200	79	57	54	44	33	28	3	49.1	5495
1800	82	58	53	43	32	27	3	49.3	4488
TOT	84	59	54	44	33	28	3	49.3	19464

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
0000	.5	8.3	17.9	21.5	24.5	27.2	79	282	282	282
0600	.4	12.4	10.1	18.8	24.5	33.7	80	243	243	243
1200	.0	8.4	9.8	22.3	25.9	33.7	83	207	207	207
1800	.0	9.6	11.4	22.0	26.0	30.9	83	175	175	175
TOT	3	78	94	175	237	320	81	907	907	907

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1859-1974

ANNUAL

AREA 0024 SOVA STRAIT W
45.5N 140.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	W FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	*	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	*	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	*	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	.1	.4
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	.1	.2	.1	.1	.1	.1	*	234	.2	.9
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2	.2	.2	.2	.1	.1	.1	*	*	281	.3	1.1
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.4	.2	.3	.3	.4	.2	.2	.1	*	*	489	.3	2.1
6	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.1	.1	.1	.1	.1	.1	.1	*	*	*	*	171	.1	.7
5	.0	.0	.0	.0	.0	.0	.0	.1	.2	.4	.6	.3	.3	.3	.3	.6	.3	.3	.2	.1	*	746	.6	3.0
4	.0	.0	.0	.0	.0	.0	.0	.1	.4	.6	.9	.6	.5	.7	.8	.5	.5	.5	.2	.1	.0	1214	1.0	5.0
3	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2	.2	.2	.1	.1	.1	.1	.1	.1	.1	.1	.0	273	.2	1.2
2	.0	.0	.0	.0	.0	.0	.0	.2	.4	.7	.9	1.5	.8	.9	.9	1.5	1.0	.5	.5	*	*	1922	1.4	8.1
1	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	.3	.2	.2	.2	.2	.3	.1	.1	*	*	*	375	.2	1.7
0	.0	.0	.0	.0	.0	.0	.0	.1	.7	1.0	1.1	1.3	.7	1.1	1.0	2.1	1.1	.6	.1	.0	.0	2303	1.5	10.2
-1	.0	.0	.0	.0	.0	.0	.0	.2	.3	.3	.2	.2	.1	.2	.2	.2	.2	.1	*	.0	.0	347	.2	1.6
-2	.0	.0	.0	.0	.0	.0	.0	.4	.6	1.2	1.0	.8	1.1	.7	1.0	.8	1.6	.6	.3	*	.0	1881	.7	9.5
-3	.0	.0	.0	.0	.0	.0	.1	.3	.3	.2	.1	.1	.1	.1	.2	.2	.1	*	*	.0	.0	320	.1	1.6
-4	.0	.0	.0	.0	.0	.0	.0	.6	.6	.5	.5	.6	.5	.6	.7	1.0	.4	.1	.0	.0	.0	1271	.3	7.3
-5	.0	.0	.0	.0	.0	.0	.1	.8	1.1	.8	.6	.4	.5	.4	.5	.5	.5	.1	*	.0	.0	985	.3	6.1
-6	.0	.0	.0	.0	.0	.0	.2	.4	.1	.1	.1	.1	.1	.1	.1	.1	.1	*	.0	.0	.0	185	.1	1.2
-7/-8	.0	.0	.0	.0	.0	.0	.7	1.4	1.1	.7	.5	.4	.6	.3	.4	.3	.2	.1	.0	.0	.0	863	.2	6.3
-9/-10	.0	.0	.0	.0	.2	.3	1.4	1.9	1.0	.7	.3	.2	.3	.2	.3	.1	.1	*	.0	.0	.0	624	.1	5.0
-11/-13	.0	.0	.0	.1	.7	1.2	1.9	1.0	.7	.3	.3	.3	.1	.2	.1	*	.0	.0	.0	.0	.0	785	.1	6.7
-14/-16	.0	.0	.0	.2	.7	1.2	1.3	.7	.3	.2	.2	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	533	*	4.9
-17/-19	.0	.0	.1	.3	.6	.6	.7	.2	.1	*	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	270	.0	2.6
-20/-22	.0	.0	.2	.3	.4	.3	.4	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	190	*	1.8
-23/-25	.0	.1	.2	.3	.4	.4	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	128	*	1.3
-26/-30	.0	.1	.2	*	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	.0	.6
<-30	*	.1	.1	.1	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	*	.3
TOTAL																						16660		
PCT	.1	.3	.8	1.2	3.0	5.1	9.7	8.7	7.3	6.9	7.0	9.5	6.2	7.3	7.1	10.2	5.3	2.8	1.2	.3	.1	100.0	8.2	91.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	1.2	.1	.0	.0	.0	1.6	.2	1.0	.1	.0	.0	.0	1.4
1-2	.1	1.2	1.2	.0	.0	.0	2.4	.1	1.2	1.6	.0	.0	.0	2.9
3-4	.0	.6	1.6	.4	.0	.0	2.6	.0	.4	2.0	.4	.0	.0	2.9
5-6	*	.3	1.1	.6	*	.0	2.0	.0	.2	1.3	.7	*	.0	2.1
7	.0	*	.9	.6	.1	.0	1.7	.0	.1	.7	.5	*	.0	1.3
8-9	.0	*	.5	.4	.1	.0	1.0	.0	*	.2	.4	*	.0	.7
10-11	.0	.0	.2	.7	*	.0	.8	.0	*	.2	.2	.1	.0	.5
12	.0	.0	*	.2	*	.0	.2	.0	.0	*	.1	*	.0	.1
13-16	.0	.0	*	.2	*	.0	.6	.0	.0	*	.1	.2	*	.3
17-19	.0	.0	.0	.1	*	.0	.1	.0	.0	*	*	*	.0	.1
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	.1	.0	.1
23-25	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.3	5.6	3.4	.6	*	13.2	.3	2.9	6.3	2.5	.6	*	12.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.7	.1	.0	.0	.0	1.0	.2	.9	.1	.0	.0	.0	1.1
1-2	*	1.3	1.1	.0	.0	.0	2.4	*	.9	.9	.0	.0	.0	1.9
3-4	*	.3	1.4	.3	.0	.0	2.1	.0	.2	.8	.1	.0	.0	1.1
5-6	.0	.1	1.0	.5	*	.0	1.6	.0	.1	.6	.3	*	.0	.4
7	.0	*	.3	.3	*	.0	.7	.0	*	.2	.2	*	.0	.4
8-9	.0	*	.1	.3	.1	.0	.5	.0	*	.1	.1	*	.0	.3
10-11	.0	*	.1	.1	*	.0	.2	.0	*	*	.1	.0	.0	.1
12	.0	.0	*	*	.0	.0	*	.0	*	.0	*	*	.0	*
13-16	.0	.0	*	*	*	.0	.1	.0	.0	.0	.1	.0	.0	.1
17-19	.0	*	*	*	*	.0	.1	.0	*	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.5	4.1	1.6	.2	.0	8.8	.2	2.2	2.7	.8	*	.0	5.9

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

TABLE 18 (CONT)

AREA 0024 SOYA STRAIT W
45.5N 140.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	1.3	.2	.0	.0	.0	1.8	.4	1.4	.2	.0	.0	.0	1.9	
1-2	.1	1.7	1.5	.0	.0	.0	3.3	.1	1.6	2.0	.0	.0	.0	3.6	
3-4	*	.5	1.6	.1	.0	.0	2.2	*	.6	3.1	.4	.0	.0	4.1	
5-6	.0	.1	.9	.2	.0	.0	1.2	.0	.1	1.9	.6	.1	.0	2.7	
7	.0	*	.4	.3	.0	.0	.7	.0	*	.7	.5	*	.0	1.2	
8-9	.0	*	.1	.2	*	.0	.4	.0	*	.3	.4	*	.0	.8	
10-11	*	.0	.1	.1	*	.0	.3	*	*	.2	.2	*	.0	.5	
12	.0	*	.1	*	*	.0	.1	*	*	*	.1	.0	.0	.1	
13-16	.0	*	*	*	*	.0	.1	.0	*	*	.1	*	.0	.2	
17-19	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.7	4.8	1.1	.2	.0	10.1	.5	3.9	8.4	2.2	.2	.0	15.2	

W								NW								TOTAL PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.2	.8	.2	.0	.0	.0	1.2	.1	.8	.2	.0	.0	.0	1.0		
1-2	.1	1.3	1.4	.0	.0	.0	2.8	*	1.2	1.2	.0	.0	.0	2.5		
3-4	*	.5	2.3	.4	.0	.0	3.2	*	.4	2.8	.8	.0	.0	4.1		
5-6	.0	.2	1.6	.8	.1	.0	2.7	.0	.2	1.7	1.1	.1	.0	3.2		
7	.0	.1	.8	.9	.1	.0	1.9	.0	*	.8	.8	.2	.0	1.8		
8-9	.0	*	.4	.7	.1	.0	1.2	*	*	.3	.8	.1	*	1.3		
10-11	.0	.0	.3	.3	.1	.0	.7	.0	.0	.2	.4	.1	.0	.7		
12	.0	.0	.1	*	*	.0	.3	.0	*	*	.2	.1	.0	.3		
13-16	.0	.0	*	.1	.1	.0	.2	.0	*	*	*	.2	.0	.2		
17-19	.0	.0	.0	*	*	.0	*	.0	.0	*	*	.1	.0	.1		
20-22	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	.0	.0	*		
23-25	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.3	3.0	7.1	3.3	.5	.0	14.1	.2	2.7	7.4	4.1	.7	*	15.1	94.8	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.9	8.2	1.2	.0	.0	.0	16.3	
1-2	.4	10.4	10.9	.0	.0	.0	21.7	
3-4	.2	3.6	15.6	3.1	.0	.0	22.4	
5-6	*	1.2	10.1	4.8	.3	.0	16.4	
7	.0	.4	4.7	4.1	.3	.0	9.6	
8-9	*	.2	2.1	3.2	.3	*	6.0	
10-11	*	.1	1.3	2.1	.3	.0	3.8	
12	*	*	.2	.7	.2	.0	1.1	
13-16	.0	.1	.2	.8	.7	*	1.8	
17-19	.0	*	*	.2	.2	.0	1.5	
20-22	.0	.0	*	.1	.1	.0	.2	
23-25	.0	.0	.0	*	*	.0	.1	
26-32	.0	.0	.0	*	*	.0	*	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.7	24.1	46.3	19.0	2.8	*	100.0	5889

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	11.7	12.9	8.1	3.4	1.5	.8	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3158	4
6-7	*	1.1	2.8	3.6	3.3	2.3	1.6	.4	.6	.3	.1	*	*	.0	.0	.0	.0	.0	.0	1203	6
8-9	*	.1	.9	1.1	1.4	1.1	1.1	.4	.6	.1	.1	*	*	.0	.0	.0	.0	.0	.0	514	8
10-11	.0	.7	.3	.3	.3	.5	.4	.1	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	239	7
12-13	.0	.0	.4	.2	.2	.2	.3	.1	.2	*	.1	.1	*	.0	.0	.0	.0	.0	.0	136	9
>13	.0	.0	.0	.3	.3	.1	.1	.1	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	81	10
INDEX	7.2	6.4	6.3	4.7	2.8	1.4	.8	.4	.7	.1	.1	*	*	.0	.0	.0	.0	.0	.0	2384	3
TOTAL																				7715	5
PCT	8.4	20.1	23.6	18.2	12.1	7.0	5.1	1.7	2.6	.7	.3	.2	*	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1859-1974

TABLE 20

AREA 0024 SOVA STRAIT W
45.5N 140.7E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.3	*	.0	.0	.0	8	*
75/76	.0	.0	.0	.0	.0	.0	.0	1.6	.5	.0	.0	.0	47	.3
73/74	.0	.0	.0	.0	.0	.0	.4	4.2	1.3	.0	.0	.0	135	.7
71/72	.0	.0	.0	.0	.0	.0	1.6	7.4	4.8	.1	.0	.0	320	1.7
69/70	.0	.0	.0	.0	.0	.0	1.9	10.3	7.3	.2	.0	.0	457	2.5
67/68	.0	.0	.0	.0	.0	.0	3.3	13.6	9.6	.7	.0	.0	619	3.4
65/66	.0	.0	.0	.0	.0	.0	2	6.4	17.4	15.1	1.8	.0	927	5.0
63/64	.0	.0	.0	.0	.0	1.6	22.2	25.4	27.0	10.7	.9	.0	1962	10.6
61/62	.0	.0	.0	.0	.1	2.2	13.4	7.5	12.0	10.5	.4	.0	1008	5.3
59/60	.0	.0	.0	.0	.5	3.2	11.2	5.1	7.0	10.0	1.2	.0	826	4.5
57/58	.0	.0	.0	.1	.5	7.7	12.0	2.5	5.6	13.3	2.9	.0	942	5.1
55/56	.0	.0	.0	.1	.7	12.1	9.3	1.4	4.4	12.3	4.6	.1	944	5.1
53/54	.0	.0	.1	.2	1.6	13.9	8.1	1.4	2.5	11.7	6.4	.6	951	5.1
51/52	.0	.0	.5	.2	2.8	13.8	4.0	.8	.9	7.5	7.9	.4	766	4.1
49/50	.8	.2	.7	.6	6.4	12.6	2.2	.3	1.0	7.2	9.6	3.6	812	4.4
47/48	1.8	.8	.7	3.5	10.4	10.6	1.5	.1	.4	4.4	8.2	4.8	780	4.2
45/46	5.9	3.5	2.4	7.0	28.4	13.8	1.5	.4	.1	6.5	19.6	13.4	1545	8.4
43/44	7.1	5.2	4.1	11.8	16.3	3.9	.6	.1	.1	1.4	11.9	11.0	933	5.1
41/42	6.1	6.1	6.0	14.0	13.2	2.0	.2	*	.0	.4	6.6	9.9	754	4.1
39/40	11.3	11.3	12.3	18.4	8.8	1.2	.1	.0	.0	1.0	8.1	12.1	884	4.8
37/38	14.2	12.1	15.9	17.9	6.0	.6	.0	.0	.0	.2	5.6	14.3	844	4.6
35/36	17.1	14.3	19.3	15.0	2.5	.3	.0	.0	.0	.1	3.4	11.4	750	4.1
33/34	13.0	13.3	13.5	6.8	1.1	.3	.0	.0	.0	.0	2.0	8.8	509	2.8
31/32	8.1	13.4	12.7	3.2	.6	.0	.0	.0	.0	.0	.6	6.4	368	2.0
29/30	9.1	13.9	8.6	1.2	.0	.0	.0	.0	.0	.0	.2	1.8	262	1.4
27/28	5.6	5.9	3.2	.0	.0	.0	.0	.0	.0	.0	.0	1.4	120	.6
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	790	595	872	1031	1707	2396	2391	2313	2220	1802	1400	956	18473	100.0
MEAN	36.5	35.4	36.0	39.2	44.0	51.1	59.5	65.4	63.4	55.5	46.0	39.6	47.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MC	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1013	1008	1014	1010	1014	1010	1015	1010	1012	918
FEB	1013	1012	1011	1011	1013	1013	1012	1012	1012	680
MAR	1013	1009	1013	1011	1014	1011	1014	1010	1012	993
APR	1012	1009	1009	1008	1011	1010	1013	1009	1010	1207
MAY	1011	1010	1011	1009	1017	1009	1012	1009	1010	1808
JUN	1010	1008	1010	1008	1010	1008	1010	1008	1009	2439
JUL	1009	1008	1009	1008	1009	1008	1008	1008	1008	2447
AUG	1010	1010	1010	1010	1011	1010	1010	1010	1010	2326
SEP	1013	1012	1012	1012	1012	1012	1012	1012	1012	2207
OCT	1016	1013	1014	1014	1016	1014	1016	1014	1015	1855
NOV	1013	1012	1012	1011	1012	1011	1013	1012	1012	1468
DEC	1012	1007	1010	1008	1012	1010	1012	1010	1010	1057
ANN	1012	1010	1011	1010	1012	1011	1012	1010	1011	19405
OBS	2791	1983	2434	2249	2724	2737	1846	2641		

PERCENTILES

MC	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	984	987	998	1007	1012	1018	1025	1030	1032
FEB	986	991	1000	1007	1012	1018	1024	1030	1032
MAR	983	987	997	1007	1013	1018	1026	1029	1033
APR	982	987	995	1005	1010	1016	1025	1029	1033
MAY	984	989	997	1005	1011	1016	1022	1026	1034
JUN	984	993	999	1005	1009	1013	1018	1023	1028
JUL	984	993	998	1005	1009	1012	1018	1021	1028
AUG	986	994	999	1006	1010	1014	1018	1022	1026
SEP	989	993	1001	1008	1012	1017	1022	1027	1034
OCT	988	995	1001	1011	1015	1020	1025	1028	1032
NOV	982	987	996	1007	1013	1018	1025	1030	1035
DEC	977	983	993	1004	1012	1017	1025	1029	1032

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1933-1974

JANUARY

AREA 0025 SOVA STRAIT E
45.3N 145.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.9	.0	.0	.3	27.9	.0	.2	29.4	5.6	.0	.9	.5	.3	.2	62.8
NE	.5	.0	.0	.0	26.9	.0	.1	27.0	6.2	.0	2.1	.1	1.2	1.2	62.3
E	3.5	1.2	.0	.0	27.5	.0	.0	29.8	3.2	.0	3.2	1.2	.0	1.2	61.4
SE	8.6	.0	3.3	.0	22.5	.0	.0	29.1	3.3	.0	3.3	.0	.0	.0	64.2
S	4.7	.0	2.0	.0	20.1	2.7	.0	29.5	4.7	.0	5.4	.0	.0	.0	60.4
SW	.0	.0	.0	.0	22.5	.0	.0	22.5	9.3	.0	.0	.0	1.3	.0	66.9
W	.9	.5	.0	.0	27.2	.0	.0	27.6	5.8	.0	3.6	.0	.5	1.5	61.0
NW	.8	.2	.0	.2	33.6	.5	.2	35.1	4.6	.0	.9	.0	.2	.5	58.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	19.6	.0	.0	19.6	3.9	.0	.0	.0	3.9	.0	72.5
TOT PCT	1.2	.2	.1	.1	28.4	.2	.1	29.8	5.3	.0	1.6	.2	.6	.6	61.7
TOT OBS:	1403														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	1.2	.2	.0	.2	31.0	.2	.4	32.6	4.0	.0	2.7	.4	.6	.4	59.3
06009	2.3	.3	.3	.0	26.3	.3	.3	28.8	7.3	.0	2.0	.3	1.0	1.8	59.0
12015	.0	.0	.3	.3	28.8	.3	.0	29.6	4.9	.0	1.6	.0	.5	.0	63.4
18021	1.5	.4	.0	.0	29.3	.0	.0	30.0	7.6	.0	.4	.0	.0	.8	61.2
TOT PCT TOT OBS:	1.2 1567	.2	.1	.1	29.0	.2	.2	30.4	5.7	.0	1.9	.2	.6	.7	60.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.0	6.6	9.3	5.4	.7	.0	23.0	15.8	23.1	21.6	24.2	25.3	22.1	9.6	23.3	28.9		
NE	.5	4.0	5.8	3.4	.7	.0	14.3	16.3	12.8	19.4	11.0	16.0	15.5	19.2	15.2	18.8		
E	.9	2.1	2.1	1.0	.3	.0	6.4	13.6	7.1	10.4	3.1	11.7	5.6	23.1	3.7	17.2		
SE	.1	1.0	1.1	.5	.1	.0	2.8	14.1	2.2	5.0	3.5	3.2	2.8	5.8	1.7	.0		
S	.3	1.0	.8	.2	.0	.0	2.4	11.0	3.1	2.3	2.1	3.2	2.3	1.9	1.5	4.7		
SW	.3	2.2	2.2	.6	.0	.0	5.3	12.6	5.0	2.7	6.1	2.1	5.8	1.9	7.0	1.6		
W	.2	3.5	6.0	2.4	1.0	.0	13.0	16.9	12.0	14.0	14.9	15.4	11.4	15.4	14.2	6.3		
NW	.8	6.1	14.1	6.7	1.4	.0	29.1	17.3	28.6	23.9	32.4	22.9	30.9	23.1	29.1	19.5		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.7						3.7	.0	6.1	.9	2.7	.0	3.5	.0	4.3	3.1		
TOT OBS	106	359	559	274	56	0	1354	15.4	347	111	292	47	311	26	188	32		
TOT PCT	7.8	26.5	41.3	20.2	4.1	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40				00	03	06	12	18
N	4.4	8.9	6.8	2.7	.2		23.0	15.8	22.8	24.4	21.1	24.1
NE	2.5	5.2	4.8	1.8	.0		14.3	16.3	14.4	11.7	15.4	15.7
E	2.0	2.6	1.2	.6	.1		6.4	13.6	7.9	4.3	7.0	5.7
SE	.4	1.7	.5	.2	.0		2.8	14.1	2.8	3.5	3.0	1.5
S	.9	1.0	.5	.0	.0		2.4	11.0	2.9	2.2	2.2	1.9
SW	1.3	2.5	1.4	.1	.0		5.3	12.6	4.5	5.5	5.5	6.3
W	1.5	5.8	3.7	2.0	.1		13.0	16.9	12.5	15.0	11.7	13.1
NW	3.2	10.7	12.1	2.9	.2		29.1	17.3	27.5	31.1	30.3	27.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.7						3.7	.0	4.8	2.4	3.3	4.1
TOT OBS	269	521	417	139	8	1354	15.4		458	339	337	220
TOT PCT	19.9	38.5	30.8	10.3	.6		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1933-1974

JANUARY

AREA 0025 SOYA STRAIT E
45.3N 145.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	4.8	5.2	26.4	41.7	18.1	3.7	.0	14.6	100.0	458
0600Z	2.4	3.2	24.2	42.8	22.7	4.7	.0	16.5	100.0	339
1200Z	3.3	3.6	29.7	39.5	20.5	3.6	.0	15.2	100.0	337
1800Z	4.1	4.1	25.5	40.9	20.5	5.0	.0	15.5	100.0	220
TOT	30	56	359	559	274	56	0	15.4		1354
PCT	3.7	4.1	26.5	41.3	20.2	4.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	2.3	2.3	9.7	9.8		6.1
NE	.6	1.2	3.8	6.2		6.6
E	.4	.3	1.3	3.3		6.6
SE	.4	.0	.7	1.3		6.3
S	.3	.3	1.0	1.1		6.1
SW	.7	.8	2.5	1.6		5.7
W	1.5	2.0	4.7	6.0		6.0
NW	1.7	3.1	10.9	14.4		6.5
VAR	.0	.0	.0	.0		.0
CALM	1.5	.3	.5	1.6		4.4
TOT OBS	94	103	352	456	1005	6.2
TOT PCT	9.4	10.2	35.0	45.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	2.5	.1	.7	1.2	4.6	6.6	1.6	.4	.0	.3	6.0	
NE	1.2	.0	.4	.2	3.3	2.7	.9	.1	.1	.2	2.6	
E	.4	.0	.3	.2	.9	1.9	.6	.0	.1	.0	.8	
SE	.2	.0	.0	.2	.4	.6	.1	.0	.2	.0	.6	
S	.0	.1	.0	.2	.9	.6	.1	.0	.0	.0	.9	
SW	.3	.0	.0	.2	.9	1.7	.3	.1	.3	.0	1.8	
W	1.4	.1	.3	.5	3.2	3.5	.7	.3	.1	.2	4.1	
NW	4.8	.1	.8	2.4	5.4	7.4	2.5	.2	.2	.6	5.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7	.0	.0	.1	.2	.6	.1	.2	.1	.0	1.9	
TOT OBS	116	4	27	53	201	256	69	13	11	13	242	1005
TOT PCT	11.5	.4	2.7	5.3	20.0	25.5	6.9	1.3	1.1	1.3	24.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>8500	.8	1.4	1.8	1.9	2.0	2.1	2.1	2.1
>5000	1.2	2.1	3.1	3.2	3.3	3.5	3.5	3.5
>3500	4.1	7.3	8.8	9.3	9.8	10.1	10.1	10.1
>2000	14.7	26.9	31.8	33.5	34.9	35.2	35.7	35.7
>1000	19.9	36.7	46.7	51.2	54.0	54.5	55.4	55.4
>600	21.2	39.4	50.7	56.1	59.3	59.9	60.9	60.9
>300	21.4	40.3	53.0	58.5	61.8	62.5	63.4	63.4
>150	21.6	40.6	53.3	58.9	62.2	62.8	63.9	63.9
>0	22.3	43.2	59.0	67.1	72.2	74.2	76.5	76.6
TOTAL	249	483	660	751	808	830	856	857

TOTAL NUMBER OF OBS: 1119

PCT FREQ NH <5/8: 23.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.1	1.4	4.8	4.6	6.8	6.8	11.7	13.5	34.1	11.1	1243

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1933-1974

JANUARY

AREA 0025 SOVA STRAIT E
45.3N 143.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.8	.4	.3	.8	.0	.2	.6	1.3	.0	.1	3.9	
	NO PCP	.0	.1	.1	.0	.1	.0	.1	.0	.0	.0	.3	
	TOT %	.8	.5	.4	.8	.1	.2	.7	1.3	.0	.1	4.2	
1/2<1	PCP	.8	.7	.4	.0	.2	.1	.4	1.5	.0	.1	4.2	
	NO PCP	.3	.2	.1	.8	.0	.0	.3	.2	.0	.0	1.1	
	TOT %	1.1	.9	.5	.8	.2	.1	.7	1.7	.0	.1	5.3	
1<2	PCP	1.2	.9	.4	.3	.2	.4	.9	2.4	.0	.1	6.7	
	NO PCP	.2	.1	.1	.1	.2	.2	.2	.4	.0	.0	1.5	
	TOT %	1.3	.9	.5	.4	.4	.6	1.1	2.7	.0	.1	8.2	
2<5	PCP	2.0	1.2	.4	.3	.1	.5	1.2	3.1	.0	.1	9.0	
	NO PCP	1.0	.9	.4	.1	.1	.4	.7	2.2	.0	.2	5.9	
	TOT %	3.0	2.0	.8	.4	.2	.9	1.9	5.3	.0	.3	14.9	
5<10	PCP	1.3	.5	.1	.2	.1	.1	.6	1.5	.0	.1	4.5	
	NO PCP	4.1	2.8	1.5	.6	.6	1.2	2.9	4.8	.0	.6	19.1	
	TOT %	5.4	3.3	1.6	.7	.7	1.3	3.5	6.3	.0	.7	23.6	
10+	PCP	.3	.1	.1	.8	.2	.9	.2	.3	.0	.1	1.6	
	NO PCP	10.4	6.1	2.0	1.2	.9	2.6	5.4	11.4	.0	2.0	42.0	
	TOT %	10.7	6.2	2.1	1.2	1.1	2.6	5.6	11.7	.0	2.1	43.6	
TOT OBS													
TOT PCT													
		22.8	13.9	6.1	2.7	2.7	5.6	13.7	29.1	.0	3.6	100.0	1404

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.8	.8	.0	.0	.0	.1	.8	.0	.2	.5	
	4-10	.2	.1	.1	.0	.0	.0	.1	.1	.0	.0	.5	
	11-21	.2	.1	.2	.8	.0	.1	.1	.5	.0	.0	1.2	
	22+	.4	.3	.1	.0	.0	.1	.3	.5	.0	.0	1.8	
	TOT %	1.0	.9	.4	.8	.0	.2	.6	1.1	.0	.2	4.0	
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	.1	.0	.2	.3	
	4-10	.3	.1	.2	.0	.1	.0	.2	.2	.0	.0	1.1	
	11-21	.5	.4	.2	.0	.1	.1	.4	.9	.0	.0	2.5	
	22+	.5	.5	.2	.0	.0	.0	.2	.5	.0	.0	1.8	
	TOT %	1.3	1.0	.7	.0	.2	.1	.7	1.7	.0	.2	5.7	
1<2	0-3	.1	.0	.0	.0	.0	.0	.1	.1	.0	.2	.5	
	4-10	.2	.2	.1	.8	.1	.3	.4	.5	.0	.0	1.7	
	11-21	.6	.6	.2	.2	.3	.1	.4	1.3	.0	.0	3.6	
	22+	.8	.3	.2	.1	.0	.8	.2	1.0	.0	.0	2.7	
	TOT %	1.7	1.1	.6	.4	.3	.4	1.0	2.9	.0	.2	8.5	
2<5	0-3	.0	.0	.0	.1	.1	.0	.8	.1	.0	.3	.6	
	4-10	.5	.6	.3	.0	.1	.2	.3	.8	.0	.0	2.8	
	11-21	1.6	.9	.3	.2	.1	.5	1.0	2.9	.0	.0	7.4	
	22+	1.1	.6	.2	.1	.0	.1	.6	1.9	.0	.0	4.7	
	TOT %	3.3	2.1	.9	.4	.3	.7	1.9	5.6	.0	.3	15.5	
5<10	0-3	.2	.1	.2	.0	.1	.1	.0	.1	.0	.8	1.4	
	4-10	1.2	.8	.7	.3	.3	.5	1.0	1.2	.0	.0	6.0	
	11-21	2.1	1.2	.4	.2	.2	.5	1.3	3.1	.0	.0	9.0	
	22+	1.9	1.5	.4	.2	.2	.2	1.1	1.7	.0	.0	7.1	
	TOT %	5.4	3.5	1.7	.7	.7	1.3	3.3	6.2	.0	.8	23.6	
10+	0-3	.7	.5	.7	.1	.2	.2	.0	.3	.0	2.0	4.6	
	4-10	4.3	2.3	.7	.7	.4	1.3	1.6	3.2	.0	.0	14.4	
	11-21	4.4	2.7	.8	.4	.3	.9	2.9	5.4	.0	.0	17.7	
	22+	1.2	1.0	.1	.2	.1	.2	.9	2.4	.0	.0	6.0	
	TOT %	10.5	6.3	2.1	1.4	1.0	2.6	5.5	11.3	.0	2.0	42.7	
TOT OBS													
TOT PCT													
		23.2	14.5	6.3	2.9	2.4	5.2	13.0	28.8	.0	3.7	100.0	1329

JANUARY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1933-1974

AREA 0025 SOYA STRAIT E
45.5N 145.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	8.6	.8	3.8	7.1	22.1	24.9	7.1	.5	1.5	1.3	77.7	22.3	394
06009	8.4	.0	3.1	6.3	25.0	27.2	7.8	1.3	.6	.6	80.3	19.7	320
12015	16.3	.7	.7	3.3	15.6	24.1	5.6	1.9	.7	1.5	70.4	29.6	270
18021	23.1	.0	1.8	2.4	10.1	22.5	5.3	2.4	.6	1.8	69.8	30.2	169
TOT	144	5	30	61	226	288	77	15	11	14	871	282	1153
PCT	12.5	.4	2.6	5.3	19.6	25.0	6.7	1.3	1.0	1.2	75.5	24.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	6.7	5.9	10.0	15.0	18.9	43.4	539
06009	4.0	6.9	7.7	14.1	24.8	42.4	403
12015	4.4	4.9	7.0	17.3	27.6	38.9	388
18021	4.4	5.1	10.2	16.0	22.9	41.5	275
TOT	81	93	140	249	372	670	1605
PCT	5.0	5.8	8.7	15.5	23.2	41.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	8.8	20.2	43.4	36.7	19.9	387
06009	8.3	15.2	36.5	44.8	18.7	319
12015	16.8	22.7	41.8	32.8	25.4	256
18021	24.2	29.8	46.6	27.3	26.1	161
TOT	142	232	465	411	243	1119
PCT	12.7	20.7	41.6	36.7	21.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	1.0	.0	1.0	1.0	.0	3	2.9
35/39	.0	.0	.0	.0	.0	1.0	5.7	5.7	13	12.4
30/34	.0	1.0	.0	1.9	.0	1.0	7.6	13.3	26	24.8
25/29	.0	.0	.0	.0	4.8	3.8	3.8	4.8	18	17.1
20/24	.0	.0	.0	1.0	8.7	4.8	4.8	3.8	22	21.0
15/19	.0	.0	.0	.0	4.8	3.8	7.6	1.0	18	17.1
10/14	.0	.0	.0	.0	.0	2.9	1.0	.0	4	3.8
5/9	.0	.0	.0	.0	.0	.0	1.0	.0	1	1.0
TOTAL	0	1	0	4	17	19	34	30	105	100.0
PCT	.0	1.0	.0	3.8	16.2	18.1	32.4	28.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.9	.0	.0	.0	.0	.0	.0	1.0	.0	.0
2.6	1.4	2.1	1.2	.0	1.0	.0	4.0	.0	.0
4.0	.0	.0	1.0	.0	3.1	5.7	10.0	.0	1.0
5.2	1.9	.7	.2	.0	2.9	2.4	3.8	.0	.0
5.2	.0	1.7	.2	.0	.2	5.7	7.9	.0	.0
9.3	1.2	.0	.2	.7	.0	.7	3.1	.0	1.9
1.4	.5	.0	.0	.0	.0	.0	.0	.0	1.9
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30.7	5.0	4.5	2.9	.7	7.1	14.5	29.8	.0	4.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	50	45	37	28	12	6	3	26.9	532
06009	51	45	39	28	13	9	5	27.3	393
12015	47	41	35	27	12	5	1	25.8	381
18021	50	41	36	28	10	5	1	25.7	273
TOT	51	43	37	28	12	5	1	26.5	1579

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.6	16.7	13.9	38.9	25.0	81	36		
06009	.0	3.1	12.5	21.9	25.0	37.5	83	32		
12015	.0	10.5	15.8	21.1	31.6	21.1	79	19		
18021	.0	.0	27.3	13.6	27.3	31.8	81	22		
TOT	0	5	19	19	34	32	81	109		

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1933-1974

JANUARY

TABLE 17

AREA 0025 SOYA STRAIT E
49.5N 145.8E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	2	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	4	.0	.3
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	3	.0	.2
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.3	.0	.0	7	.0	.5
6	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	5	.0	.4
5	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.0	.0	.0	8	.0	.6
4	.0	.0	.0	.0	.0	.0	.0	.2	.2	.3	.1	.0	.0	10	.0	.8
3	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.1	.0	.0	9	.0	.7
2	.0	.0	.0	.0	.0	.0	.0	.2	1.3	.2	.0	.1	.0	24	.1	1.8
1	.0	.0	.0	.0	.0	.0	.0	.4	.6	.2	.0	.0	.0	16	.0	1.2
0	.0	.0	.0	.0	.0	.0	.5	1.2	1.3	.6	.0	.0	.1	48	.1	3.6
-1	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	.2	.2	.0	.0	34	.0	2.6
-2	.0	.0	.0	.0	.0	.0	1.2	2.2	2.0	.0	.1	.1	.0	72	.1	5.5
-3	.0	.0	.0	.0	.0	.0	.5	2.2	1.5	.3	.1	.0	.0	60	.0	4.6
-4	.0	.0	.0	.0	.0	.0	1.9	4.9	1.0	.4	.0	.0	.0	105	.2	7.9
-5	.0	.0	.0	.0	.0	.5	2.5	3.5	1.0	.3	.1	.0	.0	102	.1	7.8
-6	.0	.0	.0	.0	.0	.2	1.3	2.5	.2	.2	.0	.0	.0	57	.1	4.3
-7/-8	.0	.0	.0	.0	.0	1.7	5.2	3.7	.5	.0	.0	.0	.0	144	.2	10.9
-9/-10	.0	.0	.0	.0	.8	2.8	5.1	1.7	.5	.0	.0	.0	.0	141	.2	10.7
-11/-13	.0	.0	.0	.2	3.0	4.4	3.9	1.5	.2	.1	.0	.0	.0	173	.2	13.1
-14/-16	.0	.0	.1	1.1	2.9	3.6	.8	.0	.1	.0	.0	.0	.0	111	.2	8.4
-17/-19	.0	.0	.8	1.4	1.4	1.0	.2	.1	.0	.0	.0	.0	.0	64	.2	4.7
-20/-22	.0	.2	1.1	1.6	.8	.2	.0	.0	.0	.0	.0	.0	.0	51	.1	3.9
-23/-25	.0	.3	.8	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	26	.1	1.9
-26/-30	.4	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.1	1.4
<-30	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	5	14	44	64	120	187	299	329	156	54	15	8	1	1296	23	1273
PCT	.4	1.1	3.4	4.9	9.3	14.4	23.1	25.4	12.0	4.2	1.2	.6	.1	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.0	.4	.0	.0	.0	2.0	.1	1.3	.3	.0	.0	.0	1.8
1-2	.0	2.1	3.0	.0	.0	.0	5.1	.0	1.3	1.3	.0	.0	.0	2.7
3-4	.0	.5	3.0	1.5	.0	.0	5.0	.0	.1	1.8	.1	.0	.0	2.1
5-6	.0	.0	2.5	1.8	.1	.0	4.4	.0	.0	1.5	1.2	.1	.0	2.8
7	.0	.2	.7	1.5	.1	.0	2.5	.0	.1	.5	.9	.1	.0	1.6
8-9	.2	.0	.3	.4	.0	.0	1.0	.0	.0	.2	.6	.2	.0	1.1
10-11	.0	.1	.2	.4	.2	.0	.9	.0	.0	.4	.7	.0	.0	1.1
12	.0	.0	.2	.0	.1	.0	.3	.0	.0	.0	.4	.0	.0	.1
13-16	.0	.0	.5	.9	.1	.0	1.4	.0	.0	.3	.4	.0	.0	.7
17-19	.0	.0	.0	.2	.3	.0	.5	.0	.0	.0	.1	.1	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.9	10.8	6.8	.9	.0	23.1	.2	2.9	6.4	4.1	.6	.0	14.2

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.6	.1	.4	.1	.0	.0	.0	.6
1-2	.0	.1	.4	.0	.0	.0	.5	.0	.4	.3	.0	.0	.0	.6
3-4	.0	.5	.6	.1	.0	.0	1.3	.0	.0	.2	.0	.0	.0	.3
5-6	.0	.1	.4	.1	.0	.0	.6	.0	.1	.1	.2	.0	.0	.4
7	.0	.0	.1	.5	.0	.0	.6	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	1.6	1.3	.1	.0	4.3	.1	.9	.8	.4	.1	.0	2.3

PERIOD: (OVER-ALL) 1963-1974

JANUARY

AREA 0025 SOYA STRAIT E
45.5N 145.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5	.2	.6	.0	.0	.0	.0	.9
1-2	.0	.3	.5	.0	.0	.0	.9	.1	1.5	.8	.0	.0	.0	2.4
3-4	.0	.0	.4	.1	.0	.0	.5	.0	.1	.7	.4	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.4
7	.0	.1	.1	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.3	.1	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.8	1.1	.2	.0	.0	2.2	.3	2.4	2.2	.7	.0	.0	5.6

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.8	.4	.0	.0	.0	1.3	.3	1.9	.7	.0	.0	.0	2.9	
1-2	.1	1.3	1.6	.0	.0	.0	3.0	.2	2.4	5.8	.0	.0	.0	8.4	
3-4	.0	.1	2.9	.8	.0	.0	3.8	.1	.4	3.8	3.4	.0	.0	7.8	
5-6	.0	.1	.5	.5	.2	.0	1.3	.0	.1	3.2	2.8	.4	.0	6.5	
7	.0	.1	.5	.4	.3	.0	1.5	.0	.0	1.1	.9	.2	.0	2.2	
8-9	.0	.0	.2	.3	.0	.0	.5	.0	.0	.2	.3	.3	.0	.8	
10-11	.0	.0	.2	.4	.1	.0	.6	.0	.0	.6	.5	.2	.0	1.3	
12	.0	.0	.3	.2	.0	.0	.5	.0	.0	.2	.0	.1	.0	.3	
13-16	.0	.0	.0	.2	.1	.0	.3	.0	.0	.3	.5	.1	.0	.9	
17-19	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.1	.0	.0	.3	
20-22	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.1	.1	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.4	6.6	2.9	1.1	.0	13.3	.7	4.8	16.1	8.6	1.5	.0	31.7	96.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGY	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.8	7.0	2.0	.0	.0	.0	13.8	
1-2	.4	9.4	13.8	.0	.0	.0	23.7	
3-4	.1	1.9	13.5	6.4	.0	.0	21.8	
5-6	.0	.4	8.5	6.7	.9	.0	16.5	
7	.0	.5	3.1	4.3	.9	.0	8.8	
8-9	.2	.0	1.3	2.2	.5	.0	4.3	
10-11	.0	.1	1.4	2.1	.7	.0	4.3	
12	.0	.0	.7	.3	.2	.0	1.2	
13-16	.0	.0	1.1	2.1	.3	.0	3.5	
17-19	.0	.0	.2	.5	.5	.0	1.3	
20-22	.0	.0	.0	.3	.3	.0	.7	
23-25	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.6	19.4	45.6	25.0	4.4	.0	100.0	911

PERIOD: (OVER-ALL) 1955-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN MGY
<6	.2	9.5	10.6	8.5	2.9	1.5	.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	384	4
6-7	.0	1.3	2.8	5.8	4.1	2.5	2.4	1.1	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	232	6
8-9	.0	.9	.6	1.5	1.4	1.2	1.2	.7	2.0	.8	.4	.2	.0	.0	.0	.0	.0	.0	.0	123	9
10-11	.0	1.4	.4	.5	.9	1.0	.8	.6	.9	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	81	8
12-13	.0	.0	1.9	.3	.4	.2	.3	.0	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	39	6
>13	.0	.0	.0	1.2	.4	.1	.2	.0	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	30	9
INDRY	7.9	3.1	3.6	2.2	1.0	.4	1.2	.4	.8	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	238	4
TOTAL	91	183	223	226	125	77	74	34	59	20	12	3	0	0	0	0	0	0	0	1127	6
PCT	8.1	16.2	19.8	20.1	11.1	6.8	6.6	3.0	5.2	1.8	1.1	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1939-1974AREA 0025 SOVA STRAIT E
45.9N 149.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DREL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	21.9	.0	.0	21.9	8.5	.0	1.2	.9	.0	.0	67.8
NE	.0	.0	.0	.0	22.3	.0	.0	22.3	7.3	.0	7.3	.5	.0	.0	62.7
E	.0	.0	3.1	.0	22.3	.0	.0	25.4	.0	.0	12.3	.0	.0	.0	62.3
SE	.0	.0	.0	.0	43.2	.0	.0	43.2	.0	.0	8.1	.0	.0	.0	48.6
S	3.4	.0	.0	.0	17.9	.0	.0	21.4	3.4	.0	12.0	2.6	.0	.0	60.7
SW	.8	.0	.0	.0	16.4	.0	.0	17.2	.0	.0	.8	.8	.0	.0	81.1
W	2.3	.0	.0	.0	21.5	.0	.0	23.8	5.4	.0	.7	.0	.9	.0	69.2
NW	.7	.0	.0	.0	21.0	.0	.0	21.7	4.4	.0	.6	.0	.0	.0	73.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	5.6	.0	.0	5.6	11.1	.0	.0	.0	.0	.0	83.3
TOT PCT	.9	.0	.2	.0	21.3	.0	.0	22.3	5.0	.0	2.9	.4	.2	.0	69.2
TOT OBS:	553														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DREL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.4	.0	.0	.4	24.0	.0	.0	24.9	4.0	.0	4.9	.0	.0	.0	66.2
06009	.9	.0	.9	.0	17.1	.0	.0	18.8	4.3	.0	3.4	1.7	.0	.0	71.8
12015	2.5	.0	.0	.0	21.7	.0	.0	24.2	5.8	.0	.8	.0	.8	.0	68.3
18021	.0	.0	.0	.0	19.5	.0	.0	19.5	7.8	.0	.8	.0	.0	.0	71.9
TOT PCT	.8	.0	.2	.2	21.2	.0	.0	22.4	5.3	.0	2.9	.3	.2	.0	69.0
TOT OBS:	590														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	6.2	5.8	3.0	.8	.2		16.7	15.6		20.2	18.0	17.8	8.0	17.8	8.7	13.1	16.7
NE	1.2	4.5	2.6	1.4	.8	.0		9.8	11.3		7.7	16.9	7.2	6.0	7.2	21.7	4.8	16.7
E	1.5	2.9	1.8	.1	.2	.0		6.4	9.5		4.5	11.2	6.5	6.0	1.3	4.3	7.1	13.3
SE	.0	1.6	1.9	.0	.0	.0		3.1	11.6		5.9	3.9	3.1	2.0	.3	4.3	.0	5.0
S	.4	1.9	1.8	.5	.0	.0		4.6	11.8		8.2	3.9	1.4	14.0	.9	8.7	2.9	5.0
SW	.6	3.1	1.9	.7	.0	.0		5.7	10.6		4.3	5.6	3.1	12.0	5.3	13.0	6.7	5.0
W	.3	5.6	9.0	2.9	1.0	.0		18.8	15.8		11.8	13.8	24.0	14.0	23.8	2.2	30.8	20.0
NW	2.1	8.5	17.7	7.3	1.3	.0		31.9	16.6		33.6	26.7	34.2	34.0	39.7	32.6	29.5	18.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0							3.0	.0		3.6	.0	2.7	4.0	3.8	4.3	5.1	.0
TOT OBS	50	174	189	81	17	1	508		14.1		110	89	73	25	80	23	78	30
TOT PCT	9.8	34.3	36.4	15.9	3.3	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	3.5	6.3	3.9	2.0	.7			16.7	15.6		19.2	15.3	15.8	14.1
NE	4.1	3.0	2.3	.4	.8			9.8	11.3		11.8	6.9	10.4	8.1
E	3.2	1.8	1.2	.2	.0			6.4	9.5		7.5	6.4	1.9	8.8
SE	.9	2.2	.5	.0	.0			3.1	11.6		5.0	2.8	1.2	1.4
S	1.6	1.8	1.3	.0	.0			4.6	11.8		6.3	4.6	2.7	3.5
SW	2.3	2.3	.9	.2	.0			5.7	10.6		4.9	5.4	7.0	6.3
W	3.2	7.5	6.2	1.5	.4			18.8	15.8		12.7	21.4	18.9	27.8
NW	6.1	10.9	9.3	5.4	.2			31.9	16.6		30.5	34.2	38.1	26.4
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	3.0							3.0	.0		2.0	3.1	3.9	3.7
TOT OBS	139	183	130	49	7	508			14.1		199	98	103	108
TOT PCT	27.4	36.0	25.6	9.6	1.4			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1933-1974

FEBRUARY

AREA 0025 SOYA STRAIT E
45.3N 149.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	2.0	9.0	40.7	35.2	11.1	2.0	.0	12.4	100.0	199
0600	3.1	5.1	27.6	40.8	19.4	4.1	.0	19.4	100.0	98
1200	3.9	4.9	35.9	28.2	21.4	4.9	1.0	19.1	100.0	103
1800	3.7	6.5	26.9	42.6	16.7	3.7	.0	19.0	100.0	108
TOT	15	35	174	185	81	17	1	14.1		508
PCT	3.0	6.9	34.3	36.4	15.9	3.3	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	2.2	3.2	6.7	4.6		5.4
NE	1.5	1.0	3.1	.8		4.9
E	1.4	.0	.0	3.1		5.8
SE	.3	.3	.3	2.9		6.9
S	.3	.9	.7	3.7		6.7
SW	.3	1.1	1.4	1.8		6.0
W	3.8	2.5	9.1	6.0		5.3
NW	5.1	5.9	15.4	8.6		5.4
VAR	.0	.0	.0	.0		.0
CALM	.8	.8	1.4	.3		4.5
TOT OBS	56	56	132	112	356	5.5
TOT PCT	15.7	15.7	37.1	31.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.3	.5	.3	.6	3.1	4.0	.0	.0	.2	.0	6.2	
NE	.4	.0	.0	.1	.9	1.8	.3	.0	.0	.0	3.1	
E	.5	.0	.0	.7	1.6	.3	.0	.0	.0	.0	1.4	
SE	.7	.0	.0	.1	.6	.8	.0	.0	.0	.0	1.1	
S	1.3	.0	.5	.0	1.0	.8	.3	.0	.0	.0	1.3	
SW	.6	.0	.1	.3	1.0	.6	.1	.0	.4	.0	1.3	
W	1.5	.0	.2	.5	3.2	4.8	1.1	.0	.5	.5	9.1	
NW	3.2	.1	.0	1.5	6.0	7.5	1.3	1.4	.1	.1	19.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.3	.6	.6	.0	.0	.0	.0	2.0	
TOT OBS	34	2	4	14	64	75	11	5	4	2	141	356
TOT PCT	9.6	.6	1.1	3.9	18.0	21.1	3.1	1.4	1.1	.6	39.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.5	1.6	1.6	1.6	1.6	1.8	1.8	1.8
= OR >5000	1.0	2.4	2.9	2.9	2.9	3.1	3.1	3.1
= OR >3500	2.4	3.9	5.8	6.0	6.0	6.3	6.3	6.3
= OR >2000	10.2	18.6	24.9	26.8	27.3	28.1	28.1	28.1
= OR >1000	14.7	29.9	38.6	42.0	43.6	45.1	45.1	45.1
= OR >600	15.0	32.8	42.3	45.7	47.2	48.8	48.8	48.8
= OR >300	15.2	33.3	43.0	46.5	48.0	49.9	50.1	50.1
= OR >150	15.5	33.6	43.6	47.0	48.6	50.4	50.7	50.7
= OR >0	15.7	34.6	46.5	51.2	54.9	58.3	59.8	59.8
TOTAL	60	132	177	195	209	222	228	228

TOTAL NUMBER OF OBS: 381

PCT FREQ NH <5/8 40.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
9.0	3.2	5.4	9.7	12.2	7.5	13.4	10.7	20.4	8.5	411

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1933-1974

FEBRUARY

AREA 0025 SDYA STRAIT E
45.5N 143.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	.6	.1	.7	.4	.4	1.2	.9	.0	.0	4.9	
	NO PCP	.3	.2	.0	.1	.5	.0	.0	.2	.0	.0	1.3	
	TOT %	1.0	.8	.1	.8	.8	.4	1.2	1.0	.0	.0	6.1	
1/2<1	PCP	.7	.5	.2	.3	.0	.2	.7	.9	.0	.2	3.6	
	NO PCP	.2	.2	.2	.0	.0	.0	.0	.2	.0	.0	.7	
	TOT %	.9	.7	.4	.3	.0	.2	.7	1.1	.0	.2	4.3	
1<2	PCP	1.0	.6	.5	.3	.8	.2	.6	1.2	.0	.0	5.2	
	NO PCP	.0	.2	.0	.2	.0	.0	.0	.4	.0	.0	.7	
	TOT %	1.0	.8	.5	.5	.8	.2	.6	1.5	.0	.0	6.0	
2<5	PCP	.8	.4	.4	.2	.0	.3	1.3	2.0	.0	.0	5.2	
	NO PCP	.9	.4	.0	.2	.9	.5	.9	1.9	.0	.0	5.6	
	TOT %	1.7	.7	.4	.4	.9	.8	2.2	3.9	.0	.0	10.8	
5<10	PCP	.3	.0	.2	.0	.0	.0	1.0	1.2	.0	.0	2.7	
	NO PCP	4.4	2.3	1.2	.6	1.3	1.7	4.3	8.2	.0	1.1	25.1	
	TOT %	4.6	2.3	1.4	.6	1.3	1.8	5.3	9.4	.0	1.1	27.8	
10+	PCP	.0	.1	.1	.0	.0	.0	.0	.7	.0	.0	.9	
	NO PCP	6.3	4.4	3.0	.8	1.6	2.2	10.0	13.8	.0	2.0	44.0	
	TOT %	6.3	4.5	3.1	.8	1.6	2.2	10.0	14.5	.0	2.0	44.9	
TOT OBS													554
TOT PCT													15.4 9.9 5.9 3.3 5.3 5.5 19.9 31.5 .0 3.2 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.2	.0	.6	.0	.4	.4	.0	.0	.0	2.2	
	11-21	.2	.2	.0	.3	.3	.0	.7	.3	.0	.0	2.0	
	22+	.7	.2	.1	.0	.2	.2	.0	.4	.0	.0	2.0	
	TOT %	1.1	.9	.1	.9	.5	.6	1.1	1.1	.0	.0	6.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.4	.4	.4	.0	.0	.2	.0	.2	.0	.0	1.6	
	11-21	.5	.4	.2	.3	.0	.0	.1	.6	.0	.0	2.2	
	22+	.4	.2	.0	.0	.0	.0	.4	.4	.0	.0	1.4	
	TOT %	1.3	1.0	.6	.3	.0	.2	.5	1.2	.0	.2	5.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	4-10	.1	.6	.2	.2	.2	.2	.2	.0	.0	.0	1.8	
	11-21	.6	.0	.2	.1	.4	.0	.3	1.0	.0	.0	2.8	
	22+	.3	.0	.0	.0	.2	.2	.2	.4	.0	.0	1.4	
	TOT %	1.1	.7	.4	.3	.8	.4	.8	1.6	.0	.0	6.2	
2<5	0-3	.1	.1	.0	.0	.0	.0	.0	.2	.0	.0	.4	
	4-10	.6	.9	.6	.0	.4	.2	.3	.9	.0	.0	4.2	
	11-21	.7	.2	.0	.0	.2	.3	1.2	1.5	.0	.0	4.2	
	22+	.3	.0	.0	.0	.0	.2	.3	1.5	.0	.0	2.4	
	TOT %	1.8	1.2	.6	.0	.6	.7	2.1	4.1	.0	.0	11.2	
5<10	0-3	.1	.2	.2	.0	.0	.2	.0	.5	.0	1.0	2.2	
	4-10	1.6	.3	.5	.5	.5	.6	1.7	2.2	.0	.0	8.0	
	11-21	1.6	.8	.6	.1	.2	.6	1.9	4.1	.0	.0	10.2	
	22+	1.2	.6	.0	.0	.1	.1	1.0	2.9	.0	.0	6.0	
	TOT %	4.6	1.9	1.3	.6	.8	1.5	4.7	9.7	.0	1.0	26.3	
10+	0-3	.6	.7	1.3	.0	.4	.4	.3	1.2	.0	1.8	6.8	
	4-10	3.3	2.1	1.2	.3	.8	1.5	2.6	6.8	.0	.0	16.7	
	11-21	2.0	1.0	.7	.6	.3	.3	4.4	5.2	.0	.0	14.5	
	22+	1.0	.4	.2	.0	.0	.0	1.9	3.0	.0	.0	6.6	
	TOT %	6.9	4.2	3.4	.9	1.5	2.2	9.3	14.3	.0	1.8	44.6	
TOT OBS													502
TOT PCT													16.9 9.9 6.5 3.0 4.3 5.7 18.5 32.1 .0 3.0 100.0

FEBRUARY

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1939-1974AREA 0025 SOYA STRAIT E
45.5N 145.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	180 269	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00203	6.9	.7	.7	4.2	20.1	23.6	4.2	.7	2.1	.0	63.2	36.8	144
06209	6.1	1.2	3.7	4.9	15.9	19.5	3.7	1.2	.0	.0	56.1	43.9	82
12215	14.8	.0	1.1	3.4	9.1	19.3	1.1	3.4	2.3	1.1	55.7	44.3	88
18221	9.0	.0	.0	1.3	20.5	21.8	2.6	.0	.0	1.3	56.4	43.6	78
TOT	35	2	5	14	66	84	12	5	5	2	230	162	392
PCT	8.9	.5	1.3	3.6	16.8	21.4	3.1	1.3	1.3	.5	58.7	41.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00203	8.0	6.3	6.3	13.5	22.4	43.5	237
06209	4.2	5.1	6.8	8.5	27.1	48.3	118
12215	8.0	4.0	6.4	16.8	32.0	32.8	125
18221	4.6	4.6	3.8	11.5	27.7	47.7	136
TOT	40	32	36	78	161	263	610
PCT	6.6	5.2	5.9	12.8	26.4	43.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <300D	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00203	7.1	15.6	40.4	30.5	29.1	141
06209	6.2	11.1	24.7	33.3	42.0	81
12215	15.7	20.5	37.3	22.9	39.8	83
18221	9.2	13.2	27.6	32.9	39.5	76
TOT	35	58	129	114	138	381
PCT	9.2	15.2	33.9	29.9	36.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	.0	.0	.0	5.0	2	5.0
39/39	.0	.0	.0	.0	.0	.0	.0	5.0	2	5.0
30/34	.0	.0	.0	.0	.0	.0	2.5	10.0	5	12.5
29/29	.0	.0	.0	.0	2.5	2.5	.0	7.5	5	12.5
20/24	.0	.0	.0	5.0	2.5	7.5	7.5	7.5	12	30.0
15/19	.0	.0	.0	.0	8.0	7.5	15.0	7.5	14	35.0
TOTAL	0	0	0	2	4	7	12	15	40	100.0
PCT	.0	.0	.0	5.0	10.0	17.5	30.0	37.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	2.5	1.9	.6	.0	.0	.0	.0
.0	2.5	.0	.0	2.5	.0	.0	.0	.0	.0
.0	7.5	2.5	.0	.0	.0	1.9	.6	.0	.0
1.9	.0	.0	.0	.0	.0	9.4	1.3	.0	.0
7.5	.0	.0	.0	.0	3.1	11.3	8.1	.0	.0
5.0	2.5	2.5	.0	.0	1.3	5.6	15.6	.0	2.5
14.4	12.5	5.0	2.5	4.4	5.0	28.1	25.6	.0	2.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00203	45	42	37	25	9	1	0	24.3	237
06209	41	39	36	26	19	3	3	25.4	116
12215	45	44	36	23	9	3	1	22.8	122
18221	46	41	33	25	11	5	4	23.3	128
TOT	46	42	36	25	10	3	0	24.0	603

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00203	.0	.0	.0	28.6	35.7	35.7	86	14
06209	.0	20.0	20.0	.0	20.0	40.0	78	5
12215	.0	.0	16.7	.0	66.7	16.7	83	6
18221	.0	6.7	13.3	20.0	13.3	46.7	85	15
TOT	0	2	4	7	12	15	84	40

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1933-1974

FEBRUARY

AREA 0025 SOVA STRAIT E
45.9N 149.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	NO FOG
-1/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2	.2	.2
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	2	.0	.4
6	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	2	.0	.4
5	.0	.0	.0	.0	.0	.0	.0	.4	1.0	.2	.0	.0	8	.2	1.4
4	.0	.0	.0	.0	.0	.0	.6	1.0	.2	.2	.0	.0	10	.2	1.8
3	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.0	.0	3	.2	.4
2	.0	.0	.0	.0	.0	.0	.0	.8	.6	.4	.0	.2	10	.2	1.8
1	.0	.0	.0	.0	.0	.0	.0	1.2	.2	.0	.0	.0	7	.2	1.2
0	.0	.0	.0	.0	.0	.0	1.2	1.8	1.4	.2	.2	.0	24	.0	4.8
-1	.0	.0	.0	.0	.0	.0	.6	1.2	.0	.0	.0	.0	9	.0	1.8
-2	.0	.0	.0	.0	.0	.0	3.2	1.2	.6	.0	.4	.0	27	.0	5.4
-3	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	7	.0	1.4
-4	.0	.0	.0	.0	.0	.0	1.8	3.0	.2	.2	.0	.0	26	.2	5.0
-5	.0	.0	.0	.0	.0	1.4	4.0	2.2	.0	.2	.0	.0	39	.2	7.6
-6	.0	.0	.0	.0	.0	.4	1.2	1.0	.0	.0	.0	.0	13	.0	2.6
-7/-8	.0	.0	.0	.0	.0	2.8	5.8	.6	.0	.0	.0	.0	46	.2	9.0
-9/-10	.0	.0	.0	.0	.0	.6	3.6	5.2	.8	.0	.0	.0	31	.2	10.0
-11/-13	.0	.0	.0	1.0	1.8	8.2	2.6	.2	.0	.0	.0	.0	69	.2	13.6
-14/-16	.0	.0	.2	3.0	5.0	2.8	.8	.4	.0	.0	.0	.0	61	.8	11.4
-17/-19	.0	.0	2.0	.2	3.8	.8	.0	.0	.0	.0	.0	.0	34	.0	6.8
-20/-22	.0	.2	2.2	1.8	.4	.2	.0	.0	.0	.0	.0	.0	24	.0	4.8
-23/-25	.0	.6	1.0	.6	.2	.0	.0	.0	.0	.0	.0	.0	12	.0	2.4
-26/-30	.8	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	.2	2.2
TOTAL	4	10	29	33	59	101	129	73	37	13	7	4	499	16	483
PCT	.8	2.0	5.8	6.6	11.8	20.2	25.9	14.6	7.4	2.6	1.4	.8	100.0	3.2	96.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5	.0	.9	.0	.0	.0	.0	.9
1-2	.0	2.4	1.2	.0	.0	.0	3.6	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.3	1.8	.0	.0	.0	2.2	.0	.4	.5	.0	.0	.0	1.0
5-6	.0	.0	1.1	.4	.0	.0	1.5	.0	.0	.9	.4	.0	.0	1.3
7	.0	.0	1.5	1.6	.4	.0	3.6	.0	.0	.4	.9	.0	.0	1.3
8-9	.0	.0	.3	.3	.0	.4	1.1	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.4	.0	.9	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.6	5.9	4.0	.8	.4	15.7	.0	2.5	1.8	1.7	.0	.0	6.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.4	.4	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.9
3-4	.0	.0	.3	.0	.0	.0	.3	.0	.0	1.4	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.4	.0	.4	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	1.2	.0	.4	.0	2.9	.0	.9	2.5	.0	.0	.0	3.3

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY
TABLE 18 (CONT)AREA 0025 SOYA STRAIT E
45.5N 145.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.4	.0	.0	.0	.0		.4	.0	1.3	.1	.0	.0	.0		1.4
1-2	.0	.0	.9	.0	.0	.0		.9	.0	.0	.1	.0	.0	.0		.1
3-4	.0	.0	.8	.3	.0	.0		1.1	.0	.4	.6	.1	.0	.0		1.2
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.9	.0	.0	.0		.9
7	.0	.0	.4	.0	.0	.0		.4	.0	.4	.0	.0	.0	.0		.4
8-9	.0	.0	.6	.0	.0	.0		.6	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.4	.4	.0	.0		.9
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	.4	2.7	.3	.0	.0		3.4	.0	2.2	2.2	.3	.0	.0		4.8

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.3	1.2	.6	.0	.0	.0		2.2	.5	2.5	.5	.0	.0	.0		3.6	
1-2	.0	1.6	1.2	.0	.0	.0		2.8	.0	2.6	3.6	.0	.0	.0		6.1	
3-4	.0	.4	3.2	1.5	.0	.0		5.2	.0	.5	7.2	3.2	.0	.0		11.0	
5-6	.0	.4	3.7	.3	.4	.0		4.8	.0	.9	1.3	1.8	.0	.0		4.0	
7	.0	.0	1.3	1.6	.0	.0		2.9	.0	.0	3.2	2.4	.0	.0		5.6	
8-9	.0	.0	.3	.8	.4	.0		1.5	.0	.0	1.1	3.2	.9	.0		5.2	
10-11	.0	.0	.4	.0	.0	.0		.4	.0	.0	.4	1.3	.4	.0		2.2	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.5	.0		.5	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.0		.1	
17-19	.0	.0	.0	.4	.3	.0		.8	.0	.0	.0	.9	.1	.0		1.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	3.7	10.8	4.6	1.2	.0		20.6	.5	6.5	17.3	12.9	1.9	.0		39.2	96.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	9.1	1.3	.0	.0	.0	15.1	
1-2	.0	8.2	8.2	.0	.0	.0	16.4	
3-4	.0	2.2	15.9	3.2	.0	.0	23.3	
5-6	.0	1.7	7.8	3.0	.4	.0	12.9	
7	.0	.4	7.3	6.5	.4	.0	14.7	
8-9	.0	.0	2.6	4.7	1.7	.4	9.5	
10-11	.0	.4	.9	2.2	.4	.0	3.9	
12	.0	.0	.0	.0	.9	.0	.9	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.4	2.2	.4	.0	3.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.7	22.0	44.4	24.1	4.3	.4	100.0	232

PERIOD: (OVER-ALL) 1991-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	7.2	12.1	8.1	5.9	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	4
6-7	.0	2.9	3.3	5.5	6.8	3.9	2.9	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	6
8-9	.0	.0	1.6	1.0	2.0	2.3	.7	.7	1.3	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	9
10-11	.0	1.0	.3	.0	.7	.7	.0	.3	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	8
12-13	.0	.0	.3	.3	.0	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
>13	.0	.0	.0	.3	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	10
INDEX	11.4	1.0	1.6	2.0	1.6	.7	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	2
TOTAL	37	37	59	53	52	30	15	8	9	7	0	0	0	0	0	0	0	0	0	307	5
PCT	12.1	12.1	19.2	17.3	16.9	9.8	4.9	2.6	2.9	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1933-1974

MARCH

AREA 0025 SOVA STRAIT E
45.4N 145.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.7	8.2	.0	.7	9.7	3.5	.0	1.0	.0	.0	.0	85.8
NE	.0	1.6	.0	.0	18.6	.0	.3	20.6	4.8	.0	2.6	.0	.0	.0	72.0
E	.0	1.5	.0	.0	19.9	.0	.0	21.4	2.9	.0	6.3	.0	.0	.0	69.4
SE	2.5	.0	.0	.0	24.5	.0	.0	24.9	.4	.0	6.3	.0	.0	.0	68.4
S	3.3	.0	.0	.0	9.0	.0	.0	10.6	2.0	.0	7.5	2.0	.0	.0	77.9
SW	.0	.0	1.1	.0	4.8	.0	.0	5.9	2.3	.3	1.4	.0	1.1	.0	89.0
W	.8	.8	.0	.0	8.1	.0	.0	9.7	.6	.6	1.4	.0	.0	.0	87.6
NW	.5	.0	.0	.1	10.9	.0	.0	11.6	1.7	.0	2.7	.0	.0	.0	84.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	5.9	.0	.0	5.9	2.9	.0	5.9	.0	2.9	.0	82.4
TOT PCT	.6	.4	.1	.1	11.5	.0	.1	12.7	2.2	.1	3.1	.1	.3	.0	81.5
TOT OBS:	774														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	.7	.7	.4	.0	13.4	.0	.4	15.2	1.8	.0	2.5	.4	.7	.0	79.4
06009	.0	.5	.0	.0	8.4	.0	.0	8.9	.9	.0	4.2	.0	.0	.0	86.0
12015	2.2	.0	.0	.5	14.2	.0	.0	15.3	2.2	.0	3.8	.5	.0	.0	78.1
18021	.6	.0	.6	.0	11.7	.0	.0	12.9	5.5	.6	1.8	.0	.0	.0	79.1
TOT PCT TOT OBS:	.8 837	.4	.2	.1	11.9	.0	.1	13.1	2.4	.1	3.1	.2	.2	.0	80.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	6.1	5.0	.8	.2	.0		13.2	11.6	16.9	8.3	7.7	16.2	14.0	4.3	16.6	10.8	
NE	1.2	3.6	3.0	1.6	.2	.0		9.6	13.1	7.9	12.2	6.5	9.5	12.9	15.2	8.4	7.8	
E	.5	3.4	2.9	.8	.2	.0		7.1	12.0	7.0	9.4	6.7	5.4	7.3	10.9	2.8	15.6	
SE	.5	4.6	2.4	.9	.2	.0		8.6	11.8	5.3	16.1	11.7	12.2	5.0	7.6	5.1	13.6	
S	.8	3.7	1.7	.2	.1	.0		6.5	9.4	6.2	6.1	6.5	10.8	5.7	16.3	4.2	7.8	
SW	.9	4.8	4.0	1.4	.1	.0		11.2	12.8	10.9	12.2	10.4	18.2	8.0	10.9	14.7	10.9	
W	1.0	6.9	6.1	1.4	.1	.0		15.5	12.5	11.6	17.8	15.6	16.2	18.3	19.2	16.8	10.9	
NW	.1	8.9	10.8	2.8	.7	.1		23.6	14.4	28.6	17.8	27.9	10.8	23.9	19.6	23.8	12.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.7							4.7	.0	5.6	.0	6.9	2.7	5.0	.0	7.5	.0	
TOT OBS	77	304	254	71	14	1	721		12.0	161	90	130	37	141	23	107	32	
TOT PCT	10.7	42.2	35.2	9.8	1.9	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	06	12	18
N	4.0	6.1	2.8	.1	.1		13.2	11.6	13.8	9.6	12.7	17.1	
NE	2.6	4.4	1.9	.7	.0		9.6	13.1	9.5	7.2	13.3	8.3	
E	2.3	3.2	1.3	.3	.0		7.1	12.0	7.9	6.4	7.8	5.8	
SE	3.5	2.9	1.6	.6	*		8.6	11.8	9.2	11.8	5.3	7.6	
S	2.9	2.6	.9	.0	.1		6.5	9.4	6.2	7.5	7.2	5.0	
SW	3.1	4.3	3.1	.6	.1		11.2	12.8	11.4	11.7	8.4	13.8	
W	3.3	7.9	3.9	.2	.1		15.5	12.5	13.8	15.7	17.8	15.5	
NW	3.7	12.9	5.4	1.1	.5		23.6	14.4	24.7	24.1	23.3	21.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.7						4.7	.0	3.6	6.0	4.3	5.8	
TOT OBS	217	319	151	27	7	721		12.0	251	167	164	139	
TOT PCT	30.1	44.2	20.9	3.7	1.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1933-1974

MARCH

AREA 0025 SOYA STRAIT E
45.4N 145.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.6	7.6	47.0	30.7	9.6	1.2	.4	11.5	100.0	231
06009	6.0	4.8	40.7	35.3	9.6	3.6	.0	12.4	100.0	167
12015	4.3	3.7	42.1	37.2	10.4	2.4	.0	12.6	100.0	164
18021	5.8	7.2	35.3	41.0	10.1	.7	.0	11.9	100.0	139
TOT	34	43	304	254	71	14	1	12.0		721
PCT	4.7	6.0	42.2	35.2	9.8	1.9	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.7	2.5	4.8	2.5		4.6
NE	2.4	1.0	2.7	3.2		5.1
E	1.5	.0	1.6	2.9		5.6
SE	.5	.1	2.5	3.9		6.8
S	1.6	.7	1.4	2.8		5.3
SW	3.0	1.2	3.7	1.7		4.2
W	4.6	3.3	4.0	2.9		4.2
NW	8.0	5.0	9.3	5.3		4.4
VAR	.0	.0	.0	.0		.0
CALM	2.7	1.0	.6	1.5		3.4
TOT OBS	147	78	160	140	525	4.7
TOT PCT	28.0	14.9	30.5	26.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.6	.0	.0	.4	2.0	2.0	.9	.3	.0	.0	7.1	
1.5	.0	.0	.2	.5	1.6	.6	.4	.6	.0	4.0	
.5	.0	.0	.2	.8	1.6	.5	.0	.0	.0	2.4	
2.3	.0	.2	.8	1.2	1.2	.0	.0	.4	.8		
1.3	.0	.2	.7	.3	.6	.3	.0	.1	1.1	2.7	
.4	.0	.0	.2	.8	2.0	.9	.2	.8	.0	5.0	
.4	.0	.0	.2	1.6	2.4	.7	.5	.0	.0	9.0	
1.3	.0	.2	1.0	2.5	4.9	1.2	.5	.8	.4	15.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.6	.0	.2	.2	.0	.4	.0	.0	.2	.0	4.2	
47	0	4	16	49	88	33	10	9	5	264	525
9.0	.0	.8	3.0	9.3	16.8	6.3	1.9	1.7	1.0	50.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.4	2.3	2.3	2.4	2.4	2.4	2.4	2.4
>5000	1.7	3.5	3.7	4.0	4.0	4.2	4.2	4.2
>3500	5.8	8.2	9.1	9.6	9.8	10.1	10.1	10.1
>2000	14.7	22.2	25.9	26.9	27.3	28.0	28.1	28.1
>1000	18.2	28.3	32.9	35.5	36.7	37.4	37.6	37.6
>600	18.9	30.1	35.0	37.6	39.5	40.2	40.4	40.4
>300	19.1	30.6	35.7	38.3	40.2	40.9	41.1	41.1
>150	19.1	30.6	35.7	38.3	40.2	40.9	41.1	41.1
>0	19.1	31.3	37.9	42.3	45.6	47.7	49.8	50.2
TOTAL	109	179	217	242	261	273	285	287

TOTAL NUMBER OF OBS: 572

PCT FREQ NH <5/8: 49.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.5	5.8	9.2	9.1	6.8	8.3	9.1	8.6	17.3	8.3	617

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1933-1974

MARCH

AREA 0025 SOYA STRAIT E
43.4N 143.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.7	.4	.5	.2	.2	.3	.5	.0	.0	3.0	
	NO PCP	.1	.2	.2	.2	.2	*	.1	.4	.0	.1	1.6	
	TOT %	.3	.9	.6	.6	.5	.2	.4	.9	.0	.1	4.5	
1/2<1	PCP	.1	*	.3	.5	.0	*	.6	.8	.0	.1	2.5	
	NO PCP	.1	*	.0	.0	.1	.0	.0	.1	.0	.0	.4	
	TOT %	.2	.1	.3	.5	.1	*	.6	1.0	.0	.1	2.9	
1<2	PCP	.6	.6	.5	.3	.0	.1	.2	.6	.0	.1	3.0	
	NO PCP	.3	.1	.1	.1	.1	.1	.2	.2	.0	.0	1.3	
	TOT %	.8	.8	.6	.4	.1	.3	.4	.7	.0	.1	4.3	
2<5	PCP	.1	.6	.0	.3	.0	.3	.1	.6	.0	.0	2.1	
	NO PCP	.8	.5	.4	.2	.3	.6	.6	2.2	.0	.1	5.6	
	TOT %	.9	1.1	.4	.4	.3	.8	.7	2.9	.0	.1	7.7	
5<10	PCP	.1	.0	.1	.2	.2	.1	.4	.2	.0	.0	1.3	
	NO PCP	1.9	2.3	1.0	1.6	1.3	1.4	3.1	4.9	.0	1.0	18.4	
	TOT %	2.0	2.3	1.1	1.8	1.6	1.6	3.4	5.0	.0	1.0	19.7	
10+	PCP	.1	*	.2	.1	.1	.0	.2	.2	.0	.0	1.0	
	NO PCP	8.5	5.0	3.5	3.8	3.6	8.5	9.9	14.1	.0	2.9	59.9	
	TOT %	8.7	5.0	3.8	3.9	3.8	8.5	10.1	14.3	.0	2.9	60.9	
TOT OBS		12.9	10.1	6.7	7.7	6.4	11.4	15.7	24.8	.0	4.4	100.0	770
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.1	.1	.1	.4	.2	.1	.3	.0		1.4	
	11-21	.1	.2	.3	*	.1	.1	.1	.3	.0		1.4	
	22+	.1	.6	.3	.5	.1	*	.1	.2	.0		1.8	
	TOT %	.2	.9	.7	.6	.6	.4	.4	.8	.0	.1	4.8	
1/2<1	0-3	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	.3	
	4-10	.0	.0	.0	.1	.0	*	.1	.1	.0		.4	
	11-21	.0	.1	.3	.3	.1	.0	.2	.3	.0		1.4	
	22+	.0	.0	.0	.1	.0	.0	.2	.5	.0		.8	
	TOT %	.1	.2	.3	.6	.1	*	.6	.9	.0	.1	3.0	
1<2	0-3	.0	.0	.0	.0	.0	.1	.2	.1	.0	.1	.6	
	4-10	.2	.1	.5	.2	.1	.1	.0	.1	.0		1.4	
	11-21	.1	.1	.3	.3	.1	.0	.1	.3	.0		1.1	
	22+	.1	.2	.2	.0	.0	.0	.1	.3	.0		1.0	
	TOT %	.5	.4	.8	.5	.2	.3	.4	.8	.0	.1	4.1	
2<5	0-3	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	.4	
	4-10	.7	.5	.0	.3	.1	.6	.3	1.1	.0		3.8	
	11-21	.1	.5	.5	.1	.0	.4	.3	1.1	.0		3.1	
	22+	.0	.1	.0	.3	.1	*	.0	.3	.0		.8	
	TOT %	.8	1.1	.5	.7	.4	1.0	1.0	2.5	.0	.1	8.2	
5<10	0-3	.1	.2	.1	.2	.1	.0	.1	.0	.0	1.1	2.0	
	4-10	.8	.5	.5	1.2	.8	.4	1.0	.7	.0		5.8	
	11-21	.9	1.1	.1	.5	.4	.7	1.8	2.4	.0		7.9	
	22+	.4	.5	.2	.0	.0	.1	.1	1.1	.0		2.5	
	TOT %	2.2	2.3	.9	1.9	1.3	1.2	3.1	4.1	.0	1.1	18.2	
10+	0-3	.9	1.0	.4	.2	.5	.8	.5	.1	.0	3.0	7.3	
	4-10	4.3	2.4	2.4	2.7	2.4	3.5	5.1	6.6	.0		29.4	
	11-21	3.4	1.0	.9	1.0	.8	2.8	3.6	6.5	.0		20.0	
	22+	.4	.5	.2	.2	.1	1.3	.9	1.4	.0		5.1	
	TOT %	9.0	4.8	3.8	4.2	3.8	8.4	10.2	14.6	.0	3.0	61.8	
TOT OBS		12.9	9.7	7.1	8.6	6.5	11.3	15.6	23.8	.0	4.6	100.0	710
TOT PCT													

MARCH

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1933-1974

AREA 0025 SOVA STRAIT E
45.4N 145.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	6.3	.0	.5	4.2	11.1	19.6	9.5	1.6	1.6	1.1	55.6	44.4	189
06009	7.9	.0	1.1	2.3	10.7	19.8	4.5	2.3	2.8	1.1	52.5	47.5	177
12015	14.0	.0	.8	1.6	7.8	7.8	3.1	.8	.8	1.6	38.0	62.0	129
18021	11.3	.0	.0	2.1	5.2	21.6	5.2	2.1	.0	.0	47.4	52.6	97
TOT	55	0	4	16	55	103	35	10	9	6	293	299	592
PCT	9.3	.0	.7	2.7	9.3	17.4	5.9	1.7	1.5	1.0	49.5	50.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	6.2	2.8	5.9	6.9	14.2	64.0	289
06009	3.3	3.7	2.3	6.5	22.3	61.9	215
12015	4.9	4.9	4.8	10.9	22.4	51.9	183
18021	5.5	1.2	5.9	12.1	23.6	52.1	165
TOT	43	27	40	74	169	499	852
PCT	5.0	3.2	4.7	8.7	19.8	58.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	6.5	11.3	25.3	32.3	42.5	186
06009	7.2	11.4	20.5	36.1	43.4	166
12015	13.6	19.2	29.6	33.6	56.8	125
18021	11.6	12.6	26.3	26.3	47.4	95
TOT	52	76	143	162	267	572
PCT	9.1	13.3	25.0	28.3	46.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	1.0	.0	.0	.0	1	1.0
35/39	.0	.0	.0	1.0	2.1	4.1	.0	1.0	8	8.2
30/34	.0	.0	.0	.0	7.2	2.1	12.4	4.1	25	25.8
25/29	.0	1.0	1.0	2.1	4.1	7.2	7.2	19.6	41	42.3
20/24	.0	.0	.0	.0	1.0	3.1	4.1	7.2	15	15.5
15/19	.0	.0	.0	.0	1.0	.0	1.0	4.1	6	6.2
10/14	.0	.0	.0	.0	.0	.0	.0	1.0	1	1.0
TOTAL	0	1	1	3	16	16	24	36	97	100.0
PCT	.0	1.0	1.0	3.1	16.5	16.5	24.7	37.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.8	.3	.0	.0	.0	.0
.8	1.3	.8	1.3	.8	1.0	.8	.5	.0	1.0
1.0	5.4	.8	3.4	3.9	3.4	1.5	6.4	.0	.0
5.9	3.1	5.2	4.1	2.8	1.5	5.4	12.1	.0	2.1
2.1	1.0	.0	1.0	2.1	.0	.8	8.5	.0	.0
.0	1.0	.0	.0	.0	.0	1.8	3.4	.0	.0
.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
9.8	12.9	6.7	9.8	10.3	6.2	10.3	30.9	.0	3.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	46	49	37	28	18	8	7	28.4	281
06009	45	44	37	30	21	14	5	30.2	208
12015	45	41	35	28	19	14	9	27.8	189
18021	43	42	36	27	18	10	7	27.2	163
TOT	46	43	37	28	19	10	5	28.5	841

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	7.0	23.3	23.3	20.9	25.6	78	43
06009	.0	3.1	12.5	9.4	31.3	43.8	66	32
12015	.0	7.7	15.4	23.1	30.8	23.1	80	13
18021	.0	.0	.0	.0	30.8	69.2	92	13
TOT	0	5	16	16	27	37	83	101

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1933-1974

MARCH

TABLE 17

AREA 0025 SOVA STRAIT E
45.4N 145.6E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	W FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.2	6	.0	.9
7/8	.0	.0	.0	.0	.0	.0	.0	.3	.8	.2	.0	8	.0	1.3
6	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	.0	3	.0	.5
5	.0	.0	.0	.0	.0	.0	.0	.9	.9	.0	.0	12	.0	1.9
4	.0	.0	.0	.0	.0	.0	.5	3.1	1.3	.0	.2	32	.2	4.9
3	.0	.0	.0	.0	.0	.0	.2	1.4	.3	.0	.0	12	.0	1.9
2	.0	.0	.0	.0	.0	.0	2.5	2.2	.2	.0	.0	31	.2	4.7
1	.0	.0	.0	.0	.0	.0	.6	.8	.3	.0	.0	11	.0	1.7
0	.0	.0	.0	.0	.0	1.3	5.0	2.5	.0	.0	.3	58	.3	8.8
-1	.0	.0	.0	.0	.0	.8	3.0	.6	.2	.2	.0	30	.3	4.4
-2	.0	.0	.0	.0	.0	4.7	4.2	1.6	.0	.0	.0	67	.5	10.1
-3	.0	.0	.0	.0	.0	1.4	1.4	.3	.2	.0	.0	21	.0	3.3
-4	.0	.0	.0	.0	.0	5.5	2.4	.6	.0	.2	.0	55	.0	8.6
-5	.0	.0	.0	.0	.0	6.1	2.0	.0	.2	.0	.0	58	.3	8.8
-6	.0	.0	.0	.0	.0	4.6	1.6	.0	.0	.0	.0	44	.0	6.9
-7/-8	.0	.0	.0	.0	1.4	5.7	1.3	.2	.0	.0	.0	54	.3	8.2
-9/-10	.0	.0	.0	.0	.3	3.3	2.4	.5	.2	.0	.0	42	.2	6.4
-11/-13	.0	.0	.2	1.6	2.5	1.9	1.3	.2	.0	.0	.0	48	.2	7.4
-14/-16	.0	.0	1.1	1.1	.6	.8	.3	.0	.0	.0	.0	25	.0	3.9
-17/-19	.0	.5	.0	.2	.2	.0	.2	.0	.0	.0	.0	6	.0	.9
-20/-22	.3	.3	.0	.3	.5	.0	.0	.0	.0	.0	.0	9	.0	1.4
-23/-25	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
-26/-30	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	4	5	8	22	65	223	171	96	31	7	4	636	15	621
PCT	.6	.8	1.3	3.5	10.2	35.1	26.9	15.1	4.9	1.1	.6	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.3	.5	.0	.0	.0	3.3	.7	2.4	.0	.0	.0	.0	3.1
1-2	.2	2.5	1.1	.0	.0	.0	3.7	.1	.6	1.6	.0	.0	.0	2.3
3-4	.2	.5	1.2	.0	.0	.0	1.9	.3	.0	.9	.2	.0	.0	1.5
5-6	.0	.0	2.0	.2	.0	.0	2.2	.0	.0	1.0	.4	.0	.0	1.4
7	.0	.0	.9	.2	.0	.0	1.1	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.3	6.8	.4	.2	.0	13.5	1.1	3.0	3.8	.9	.0	.0	8.7

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.2	.0	.0	.0	.0	2.4	.1	2.3	.0	.0	.0	.0	2.4
1-2	.0	.5	.9	.0	.0	.0	1.4	.0	.8	.3	.0	.0	.0	1.1
3-4	.0	.2	.4	.0	.0	.0	.6	.0	.1	1.4	.2	.0	.0	1.7
5-6	.0	.0	.2	.4	.0	.0	.7	.0	.0	.0	.2	.0	.0	.2
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.6	.0	.2	.0	.8
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.5	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.1	.1	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.9	2.2	.9	.2	.0	6.3	.1	3.2	2.4	1.1	.4	.0	7.1

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0025 SOYA STRAIT E
45.4N 143.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.7	.2	.0	.0	.0	2.7	.2	1.6	.2	.0	.0	.0	2.1
1-2	.0	.7	.9	.0	.0	.0	1.6	.2	1.1	.8	.0	.0	.0	2.1
3-4	.0	.2	1.0	.0	.0	.0	1.2	.0	.4	2.3	.0	.0	.0	2.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.2	.0	.0	1.2
7	.0	.2	.0	.2	.0	.0	.5	.0	.4	.7	.3	.0	.0	1.4
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.2	.2	.6	.0	.0	1.1
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.3	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.9	2.5	.4	.2	.0	6.8	.5	3.7	5.6	1.9	.2	.0	11.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.7	.0	.0	.0	.0	1.7	.0	4.7	.2	.0	.0	.0	4.9	
1-2	.2	3.2	1.5	.0	.0	.0	4.9	.0	2.6	3.8	.0	.0	.0	6.5	
3-4	.0	.8	2.4	.7	.0	.0	4.0	.0	.8	2.7	1.0	.0	.0	4.5	
5-6	.0	.2	.9	.4	.0	.0	1.6	.0	.0	2.0	1.3	.2	.0	3.5	
7	.0	.6	1.2	.4	.0	.0	2.2	.0	.0	2.4	.3	.2	.0	3.0	
8-9	.0	.2	.0	.2	.0	.0	.5	.0	.2	.1	.2	.0	.0	.6	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.5	.0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.5	
13-16	.0	.0	.2	.2	.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.1	.0	.6	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	6.8	6.3	2.2	.2	.0	15.8	.0	8.3	11.6	4.1	.6	.0	24.6	94.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.7	18.9	1.2	.0	.0	.0	27.8	
1-2	.7	11.9	10.9	.0	.0	.0	23.6	
3-4	.5	3.0	12.4	2.2	.0	.0	18.1	
5-6	.0	.2	7.2	3.2	.2	.0	10.9	
7	.0	1.2	6.5	1.5	.5	.0	9.7	
8-9	.0	.7	1.0	1.2	.0	.0	3.0	
10-11	.0	.0	1.2	1.0	.0	.0	2.2	
12	.0	.0	.2	.2	.0	.0	.5	
13-16	.0	.0	.5	1.0	.5	.0	2.0	
17-19	.0	.0	.0	.5	.0	.0	.5	
20-22	.0	.0	.0	1.0	.7	.0	1.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.9	36.0	41.2	11.9	2.0	.0	100.0	403

PERIOD: (OVER-ALL) 1953-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	11.7	10.0	5.3	4.9	1.8	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	174	4
6-7	.0	2.0	3.5	4.5	4.3	1.4	1.4	.4	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	88	6
8-9	.2	.6	.8	1.2	1.0	.6	1.8	.8	1.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	43	9
10-11	.0	1.4	1.2	.6	.6	.2	.6	.8	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	32	7
12-13	.0	.0	1.6	1.0	.4	.2	.2	.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	20	7
>13	.0	.0	.0	.6	.4	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	10	10
INDET	16.0	1.4	2.2	1.8	.8	.6	.6	.4	.0	.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	122	2
TOTAL	85	84	95	75	61	24	24	13	12	5	10	1	0	0	0	0	0	0	0	489	5
PCT	17.4	17.2	19.4	15.3	12.5	4.9	4.9	2.7	2.5	1.0	2.0	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974

APRIL

AREA 0025 SOYA STRAIT E
45.5N 149.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.5	.8	3.2	.0	9.7	.0	.0	16.2	1.5	.0	8.8	.6	.0	2.3	70.5
NE	7.8	1.3	3.5	.0	17.9	.0	1.3	29.4	2.1	.0	11.2	.3	2.4	2.1	52.4
E	9.7	1.4	4.3	.0	13.0	.7	.7	28.1	1.9	.0	10.2	.0	.7	.0	59.1
SE	11.1	.2	3.7	.0	5.0	.2	.0	19.4	3.5	.0	9.7	1.3	.7	1.3	64.0
S	7.0	1.6	1.4	.0	2.7	.0	.0	11.8	1.4	.0	13.2	.8	.0	.0	72.9
SW	6.5	.0	.6	.0	2.8	.0	.4	9.9	.8	.0	13.3	.9	.5	.4	74.1
W	3.8	.4	1.9	.0	2.6	.0	.0	8.2	2.0	.0	4.7	.4	.9	.4	83.4
NW	1.3	.8	1.3	.0	5.2	.0	.0	7.9	2.7	.0	2.8	.6	.6	2.2	83.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2	.0	.0	.0	.0	.0	2.2	4.4	2.2	.0	15.6	.0	.0	2.2	75.6
TOT PCT	5.8	.6	2.1	.0	5.9	.1	.3	14.2	1.9	.0	9.4	.6	.6	1.1	72.2
TOT OBS:	1236														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	5.3	.3	2.3	.0	4.3	.0	.8	12.4	2.8	.0	9.1	.5	.3	1.0	73.9
06009	5.7	.3	1.5	.0	7.2	.0	.3	14.1	2.4	.0	11.7	.3	.6	1.5	69.4
12015	6.1	1.7	2.2	.0	7.2	.3	.6	16.9	1.4	.3	7.5	.8	1.9	1.1	70.4
18021	6.1	.8	2.9	.0	5.7	.0	.0	15.5	2.4	.0	8.2	1.2	.0	1.2	71.4
TOT PCT	5.8	.7	2.2	.0	6.1	.1	.4	14.6	2.2	.1	9.1	.7	.7	1.2	71.4
TOT OBS:	1334														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	2.8	3.8	1.3	.5	.0		9.0	15.0		8.5	9.4	11.4	6.2	10.1	7.2	7.1	8.2
NE	.3	4.0	2.4	1.4	.1	.0		8.2	12.9		6.5	10.4	9.4	14.4	6.5	7.2	9.3	.9
E	.8	3.6	3.3	.8	.2	.0		8.7	12.5		9.9	5.2	10.8	6.2	9.0	7.9	9.9	5.5
SE	.8	4.6	4.4	2.2	.3	.0		12.3	14.1		13.6	10.7	10.6	10.3	15.8	7.2	13.0	10.0
S	.2	4.1	4.2	1.5	.4	.0		10.4	14.5		12.0	10.7	9.0	11.6	10.8	8.6	9.9	8.2
SW	1.0	7.4	8.1	2.1	.3	.0		18.9	13.1		16.6	22.1	17.4	22.6	16.5	29.6	13.3	31.8
W	.6	5.9	7.2	2.2	.2	.0		16.1	13.7		15.8	13.1	14.3	13.7	15.3	19.1	19.4	24.5
NW	.1	3.5	5.2	3.0	.8	.0		12.6	17.5		13.5	15.7	13.2	13.7	9.4	10.5	13.3	10.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.9							3.9	.0		3.7	2.6	3.8	1.4	6.4	2.6	4.7	.0
TOT OBS	98	426	459	172	32	0	1187		13.6		217	154	210	73	233	76	169	55
TOT PCT	8.3	35.9	38.7	14.5	2.7	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	1.9	3.6	2.5	.9	.1		9.0	15.0		8.9	10.1	9.4	7.4		
NE	2.2	3.7	1.8	.4	.1		8.2	12.9		8.1	10.7	6.7	7.3		
E	2.5	3.3	2.7	.2	.0		8.7	12.5		8.0	9.6	8.7	8.8		
SE	2.8	5.3	2.9	1.0	.2		12.3	14.1		12.4	10.5	13.7	12.3		
S	1.7	5.1	2.9	.5	.1		10.4	14.5		11.5	9.7	10.3	9.5		
SW	4.2	9.4	4.4	.7	.1		18.9	13.1		18.9	18.7	19.7	17.9		
W	3.1	8.0	3.9	1.0	.1		16.1	13.7		14.7	14.1	16.3	20.6		
NW	1.4	5.2	4.1	1.9	.8		12.6	17.5		14.4	13.3	9.7	12.7		
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0		
CALM	3.9						3.9	.0		3.2	3.2	5.5	3.6		
TOT OBS	281	519	300	80	7	1187		13.6		371	283	309	224		
TOT PCT	23.7	43.7	25.3	6.7	.6		100.0			100.0	100.0	100.0	100.0		

APRIL

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974AREA 0025 SOYA STRAIT E
45.5N 145.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			44+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.2	4.0	37.2	39.4	13.2	3.0	.0	13.6	100.0	371
06009	3.2	2.1	31.8	41.3	18.0	3.5	.0	15.2	100.0	283
12015	5.5	6.1	35.6	36.6	13.9	2.3	.0	12.8	100.0	309
18021	3.6	5.4	39.3	37.1	12.9	1.8	.0	12.8	100.0	224
TOT	46	52	426	459	172	32	0	13.6		1187
PCT	3.9	4.4	35.9	38.7	14.5	2.7	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	1.9	1.1	1.0	5.1		5.7
NE	1.1	.5	.9	3.8		6.0
E	1.0	.6	1.1	6.4		6.5
SE	1.3	1.4	2.0	7.4		6.3
S	2.8	.8	1.5	5.8		5.4
SW	6.0	2.5	3.6	6.0		4.3
W	5.5	2.9	3.4	3.9		4.2
NW	2.8	2.2	3.6	4.5		5.2
VAR	.0	.0	.0	.0		.0
CALM	1.8	.4	1.1	1.4		4.2
TOT OBS	184	94	145	336	759	5.2
TOT PCT	24.2	12.4	19.1	44.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
1.2	.1	.0	.4	2.4	1.9	.5	.0	.2	.0	3.4	
1.2	.3	.3	.4	1.1	.5	.0	.3	*	*	2.1	
2.3	.3	.0	.2	1.6	2.0	.0	.1	.2	.4	1.8	
2.3	.0	.3	.3	1.9	2.5	.5	.4	.1	*	3.9	
2.2	.0	.1	.0	1.0	2.1	.5	.0	.3	.4	4.3	
2.6	.0	.1	.6	1.5	2.5	.5	.3	.3	.4	9.2	
1.3	.1	.1	.3	2.0	2.3	.4	.1	.2	.0	8.8	
.9	.3	.3	.7	1.8	2.0	.7	.3	.3	.0	5.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.5	.1	.0	.1	.5	.8	.3	.0	.0	.0	2.6	
111	9	9	23	106	127	25	11	13	9	316	
14.6	1.2	1.2	3.0	14.0	16.7	3.3	1.4	1.7	1.2	41.6	759
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.3	2.3	2.6	2.6	2.7	2.7	2.7	2.7
= OR >5000	2.1	3.7	4.1	4.1	4.3	4.3	4.3	4.3
= OR >3500	4.3	6.6	7.4	7.4	7.6	7.6	7.7	7.7
= OR >2000	11.0	19.4	23.4	24.0	24.5	24.7	25.0	25.0
= OR >1000	14.6	27.3	34.2	36.1	37.6	38.1	38.7	38.7
= OR >600	14.7	28.7	36.7	38.7	40.7	41.2	41.8	41.8
= OR >300	14.7	29.1	37.3	39.5	41.5	42.3	43.0	43.0
= OR >150	15.0	29.4	37.6	39.8	42.5	43.4	44.2	44.2
= OR >0	15.3	31.9	42.3	47.1	51.4	54.9	58.7	59.1
TOTAL	126	262	347	387	422	451	482	485

TOTAL NUMBER OF OBS: 821

PCT FREQ NH <5/8: 40.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
18.9	3.9	6.3	6.3	4.8	6.0	4.9	4.9	30.4	13.5	872

APRIL

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974AREA 0025 SOYA STRAIT E
45.5N 145.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.6	.5	.3	.1	.3	.3	.2	.0	.0	2.6	
	NO PCP	.5	.4	.6	.8	.6	1.0	.2	.2	.0	.2	4.6	
	TOT %	.8	1.1	1.1	1.1	.7	1.3	.5	.3	.0	.2	7.2	
1/2<1	PCP	.2	.6	.3	.3	.3	.3	.2	.4	.0	.1	2.7	
	NO PCP	.1	.2	.1	.2	.3	.3	.3	.1	.0	.0	1.5	
	TOT %	.2	.8	.3	.5	.6	.6	.5	.4	.0	.1	4.1	
1<2	PCP	.4	.4	.5	.6	.3	.5	.1	.2	.0	.0	3.0	
	NO PCP	.0	.1	.1	.0	.1	.1	.2	.1	.0	.1	.8	
	TOT %	.4	.4	.6	.6	.4	.6	.3	.4	.0	.1	3.8	
2<5	PCP	.5	.5	.6	.9	.3	.3	.1	.1	.0	.0	3.3	
	NO PCP	.7	.6	.6	1.3	.7	1.1	.6	.9	.0	.3	6.8	
	TOT %	1.2	1.1	1.1	2.2	1.0	1.4	.7	1.1	.0	.3	10.1	
5<10	PCP	.3	.2	.5	.5	.3	.5	.5	.2	.0	.0	3.0	
	NO PCP	2.3	1.9	1.6	2.7	2.5	4.7	3.1	2.8	.0	1.0	22.5	
	TOT %	2.6	2.1	2.1	3.2	2.7	5.3	3.6	3.0	.0	1.0	25.5	
10+	PCP	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.2	
	NO PCP	4.9	2.1	3.2	4.7	4.9	10.2	10.0	7.6	.0	1.9	49.2	
	TOT %	4.9	2.2	3.4	4.7	4.9	10.2	10.1	7.6	.0	1.9	49.4	
TOT OBS													1241
TOT PCT													
		9.7	7.6	8.6	12.2	10.4	19.3	15.7	12.8	.0	3.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.1	.0	.0	.2	.0	.0	.0	.2	.6	
	4-10	.1	.5	.3	.3	.2	.9	.1	.1	.0	.0	2.6	
	11-21	.5	.1	.4	.5	.2	.2	.2	.1	.0	.0	2.1	
	22+	.2	.3	.2	.4	.2	.0	.1	.3	.0	.0	1.6	
	TOT %	.8	1.1	1.1	1.1	.5	1.3	.3	.5	.0	.2	6.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.2	.1	.3	.2	.2	.2	.0	.0	.0	1.3	
	11-21	.0	.3	.1	.1	.3	.5	.3	.1	.0	.0	1.6	
	22+	.1	.4	.2	.1	.2	.1	.0	.3	.0	.0	1.4	
	TOT %	.3	.9	.4	.5	.6	.8	.6	.4	.0	.1	4.4	
1<2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.2	
	4-10	.1	.5	.3	.3	.2	.2	.3	.0	.0	.0	1.8	
	11-21	.0	.3	.2	.2	.2	.3	.0	.1	.0	.0	1.4	
	22+	.3	.0	.1	.1	.1	.2	.1	.0	.0	.0	.9	
	TOT %	.4	.8	.6	.6	.4	.8	.4	.2	.0	.1	4.2	
2<5	0-3	.2	.0	.1	.1	.1	.0	.0	.0	.0	.3	.8	
	4-10	.5	.4	.4	.4	.3	.4	.2	.3	.0	.0	2.9	
	11-21	.5	.6	.7	1.0	.5	.9	.3	.6	.0	.0	5.1	
	22+	.2	.1	.1	.8	.2	.2	.2	.5	.0	.0	2.3	
	TOT %	1.4	1.2	1.3	2.3	1.1	1.4	.8	1.4	.0	.3	11.2	
5<10	0-3	.1	.0	.1	.2	.0	.2	.3	.0	.0	1.0	1.9	
	4-10	.8	1.2	.8	1.2	.8	2.2	1.2	.6	.0	.0	8.8	
	11-21	1.1	.5	1.1	1.1	1.3	2.2	1.5	1.3	.0	.0	10.0	
	22+	.6	.5	.2	.7	.6	.8	.8	1.2	.0	.0	5.5	
	TOT %	2.6	2.2	2.2	3.2	2.7	5.4	3.7	3.2	.0	1.0	26.2	
10+	0-3	.3	.2	.5	.5	.1	.6	.3	.1	.0	1.8	4.4	
	4-10	1.3	1.2	1.7	2.3	2.4	3.7	3.9	2.4	.0	.0	18.9	
	11-21	1.7	.6	1.0	1.5	1.7	4.2	5.0	3.0	.0	.0	18.6	
	22+	.4	.1	.2	.2	.5	.9	1.2	1.6	.0	.0	5.1	
	TOT %	3.6	2.1	3.3	4.6	4.7	9.3	10.5	7.1	.0	1.8	47.0	
TOT OBS													1155
TOT PCT													
		9.1	8.2	9.0	12.2	10.0	19.0	16.3	12.7	.0	3.5	100.0	

APRIL

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974AREA 0025 SOYA STRAIT E
45.5N 145.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	14.1	.8	1.1	3.8	13.4	19.1	2.7	2.3	1.5	1.9	60.7	39.3	262
06009	11.0	1.6	2.0	3.3	17.9	16.3	4.9	2.0	2.4	1.2	62.6	37.4	246
12015	17.4	1.9	.9	2.3	10.3	18.8	3.8	.9	1.4	.0	57.7	42.3	213
18021	18.0	.8	.8	1.6	10.7	12.3	.8	.0	.0	.8	45.9	54.1	122
TOT	123	11	11	25	114	145	28	13	13	9	492	351	843
PCT	14.6	1.3	1.3	3.0	13.5	17.2	3.3	1.5	1.5	1.1	58.4	41.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	6.5	3.6	4.8	9.9	22.8	52.3	413
06009	6.9	4.9	5.5	13.6	19.9	49.1	346
12015	7.6	3.8	6.2	12.4	26.2	43.8	370
18021	9.0	5.1	3.9	10.6	32.9	38.4	255
TOT	102	59	72	161	344	646	1384
PCT	7.4	4.3	5.2	11.6	24.9	46.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	14.2	18.5	32.3	30.3	37.4	254
06009	11.1	18.5	32.9	33.3	33.7	243
12015	18.1	24.0	39.2	21.6	39.2	204
18021	18.3	25.0	32.5	18.3	49.2	120
TOT	122	171	281	224	316	821
PCT	14.9	20.8	34.2	27.3	38.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	.0	1.6	.0	1	1.6
45/49	.0	.0	.0	.0	1.6	1.6	1.6	.0	3	4.8
40/44	.0	.0	1.6	.0	1.6	6.5	.0	.0	6	9.7
35/39	.0	.0	.0	.0	3.2	14.5	17.7	12.9	30	48.4
30/34	.0	.0	.0	.0	1.6	4.8	8.1	21.0	22	35.5
TOTAL	0	0	1	0	5	17	18	21	62	100.0
PCT	.0	.0	1.6	.0	8.1	27.4	29.0	33.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0
.0	.0	.0	.0	1.6	.0	.0	3.2	.0	.0
.0	.0	.0	1.6	2.4	2.4	1.2	2.0	.0	.0
4.0	.4	4.8	8.1	5.2	9.3	9.3	4.0	.0	3.2
4.4	2.4	7.7	8.1	1.6	2.0	3.6	2.0	.0	1.6
8.5	2.8	12.5	17.7	10.9	13.7	16.1	12.9	.0	4.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	52	50	47	37	29	25	22	37.3	382
06009	52	49	46	37	28	24	21	36.7	297
12015	50	48	43	34	28	24	19	35.0	332
18021	50	49	45	34	28	23	19	35.2	215
TOT	52	49	46	36	28	24	19	36.1	1226

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.0	5.0	35.0	30.0	25.0	81	20
06009	.0	.0	10.0	30.0	25.0	35.0	84	20
12015	.0	.0	7.1	21.4	35.7	35.7	86	14
18021	.0	.0	10.0	10.0	40.0	40.0	86	10
TOT	0	1	5	17	20	21	84	64

APRIL

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974

TABLE 17

AREA 0025 SOVA STRAIT E
45.5N 145.0EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	17 20	21 24	23 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FDG	NO FDG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.5	.5	8	.1	.9
11/13	.0	.0	.0	.0	.0	.0	.4	1.4	.0	14	.0	1.8
9/10	.0	.0	.0	.0	.0	.3	1.6	.9	.1	22	.1	2.7
7/8	.0	.0	.0	.0	.1	1.9	2.6	1.7	.0	49	1.3	5.0
6	.0	.0	.0	.0	.3	1.0	.3	.1	.0	13	.1	1.6
5	.0	.0	.0	.0	.9	4.8	2.5	.6	.0	68	.8	8.0
4	.0	.0	.0	.1	2.5	4.1	1.6	.3	.3	68	1.2	7.6
3	.0	.0	.0	.4	1.4	1.7	.4	.1	.0	31	.0	4.0
2	.0	.0	.0	.8	5.7	4.5	1.0	.8	.0	99	1.3	11.5
1	.0	.0	.0	.8	2.2	1.3	.5	.0	.0	37	.5	4.3
0	.0	.0	.0	3.2	6.8	2.1	.6	.3	.0	101	1.2	11.9
-1	.0	.0	.1	1.7	1.0	.5	.4	.0	.1	30	.4	3.5
-2	.0	.0	.3	4.3	3.5	1.0	.3	.4	.0	75	.5	9.2
-3	.0	.0	.3	1.0	.9	.1	.0	.0	.0	18	.3	2.1
-4	.0	.0	1.0	2.3	1.4	.1	.0	.1	.0	39	.4	4.7
-5	.0	.0	.9	1.9	1.2	.0	.0	.0	.0	31	.5	3.3
-6	.0	.0	.1	.4	.1	.0	.0	.0	.0	5	.0	.6
-7/-8	.0	.1	1.0	1.3	.4	.0	.0	.0	.0	22	.3	2.6
-9/-10	.0	.4	.6	.6	.1	.6	.0	.0	.0	19	.4	2.1
-11/-13	.1	.3	.5	.4	.4	.4	.0	.0	.0	16	.4	1.7
-14/-16	.0	.0	.0	.1	.3	.0	.0	.0	.0	3	.0	.4
-20/-22	.0	.0	.1	.5	.0	.0	.0	.0	.0	5	.1	.5
TOTAL	1	6	39	154	226	190	93	56	9	774	76	698
PCT	.1	.8	5.0	19.9	29.2	24.5	12.0	7.2	1.2	100.0	9.8	90.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	.9	.0	.9	.2	.0	.0	.0	.0	1.1
1-2	.3	.7	.8	.0	.0	.0	1.8	.0	.5	.6	.0	.0	.0	.0	1.1
3-4	.0	.5	1.4	.2	.0	.0	2.0	.0	.3	.5	.0	.0	.0	.0	.8
5-6	.0	.0	.9	.0	.0	.0	.0	.0	.0	.6	.3	.0	.0	.0	.9
7	.0	.0	.5	.2	.2	.0	.9	.2	.0	.5	.3	.0	.0	.0	.9
8-9	.0	.2	.3	.6	.0	.0	1.0	.0	.0	.5	.2	.0	.0	.0	.2
10-11	.0	.0	.1	.3	.4	.0	.8	.0	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.3	.1	.0	.0	.4	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.2	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.1	4.3	1.5	.8	.0	9.1	.2	1.7	2.6	1.3	.2	.0	.0	5.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.5	.2	.0	.0	.0	2.6	.2	2.1	.3	.0	.0	.0	.0	2.6
1-2	.0	1.3	.8	.0	.0	.0	2.1	.2	1.5	1.8	.0	.0	.0	.0	3.4
3-4	.0	.6	.9	.3	.0	.0	1.8	.2	.6	1.8	.2	.0	.0	.0	2.7
5-6	.0	.2	.6	.3	.0	.0	1.0	.0	.0	1.3	.6	.0	.0	.0	2.0
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.5	1.4	.0	.0	.0	1.9
8-9	.0	.0	.3	.3	.0	.0	.5	.0	.0	.2	.3	.0	.0	.0	.5
10-11	.0	.0	.0	.2	.2	.0	.3	.2	.0	.2	.8	.2	.0	.0	1.3
12	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.2	.0	.0	.2	.0	.3	.0	.0	.2	.0	.3	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	3.9	.9	.3	.0	9.8	.6	4.2	6.1	3.5	.5	.0	.0	19.0

PERIOD: (OVER-ALL) 1963-1974

APRIL

TABLE 18 (CONT)

AREA 0025 SOYA STRAIT E
49.5N 145.6E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.2	.0	.0	.0	.8	.2	1.7	.2	.0	.0	.0	2.0
1-2	.0	1.4	1.4	.0	.0	.0	2.8	.0	1.9	3.4	.0	.0	.0	5.3
3-4	.0	.4	2.2	.3	.0	.0	2.8	.0	1.1	2.3	.4	.0	.0	3.8
5-6	.0	.4	1.0	.1	.1	.0	1.7	.0	.2	1.5	.2	.0	.0	2.0
7	.0	.0	.0	.9	.2	.0	1.1	.0	.2	1.1	.3	.2	.0	1.7
8-9	.0	.0	.5	.1	.0	.0	.6	.0	.0	.1	.2	.0	.0	.3
10-11	.0	.0	.0	.4	.1	.0	.5	.0	.0	.2	.2	.0	.0	.4
12	.0	.0	.1	.1	.0	.0	.2	.0	.0	.2	.2	.0	.0	.1
13-16	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.2	.0	.0	.8
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.2	.6	.0	.0	.6
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	5.4	2.0	.7	.0	10.8	.2	4.9	9.4	2.3	.3	.0	17.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.3	.5	.0	.0	.0	1.7	.0	.6	.3	.0	.0	.0	.9	
1-2	.0	2.1	1.7	.0	.0	.0	3.8	.0	1.0	1.5	.0	.0	.0	2.3	
3-4	.2	.9	2.1	.9	.0	.0	4.1	.0	.8	1.9	.0	.0	.0	3.0	
5-6	.0	.4	1.7	.3	.0	.0	2.3	.0	.5	.8	.3	.0	.0	2.2	
7	.0	.0	.7	.5	.0	.0	1.2	.0	.0	.5	.7	.3	.0	1.6	
8-9	.0	.0	.4	.3	.0	.0	.9	.0	.0	.0	.7	.2	.0	.9	
10-11	.0	.0	.2	.3	.0	.0	.6	.0	.0	.2	.6	.0	.0	.8	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.2	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.3	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.3	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.3	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.3	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.3	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.3	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.3	
TOT PCT	.2	4.7	7.6	2.8	.0	.0	15.2	.0	2.0	5.4	4.2	1.1	.0	12.8	95.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	10.4	1.8	.0	.0	.0	16.9	
1-2	.5	10.3	12.1	.0	.0	.0	22.8	
3-4	.3	4.4	13.0	3.3	.0	.0	21.0	
5-6	.0	1.7	8.5	2.4	.5	.0	13.0	
7	.2	.2	4.5	4.2	.8	.0	9.8	
8-9	.0	.2	1.7	2.9	.2	.0	4.8	
10-11	.2	.0	1.1	3.0	.9	.0	5.1	
12	.0	.0	1.2	.9	.0	.0	2.1	
13-16	.0	.2	.5	.9	1.1	.0	2.6	
17-19	.0	.0	.3	.6	.5	.0	1.4	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.7	27.2	44.6	18.5	3.9	.0	100.0	661

PERIOD: (OVER-ALL) 1961-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	9.7	13.9	6.4	4.6	1.1	1.6	.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	315	4
6-7	.0	1.6	2.8	4.1	4.0	3.1	2.2	.7	.6	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	161	7
8-9	.0	1.0	1.5	1.6	2.4	1.5	1.1	.9	1.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	8
10-11	.0	1.4	.6	.4	.9	.5	.9	.4	.2	.4	.0	.2	.2	.0	.0	.0	.0	.0	.0	56	7
12-13	.0	.0	1.4	.5	.2	.2	.0	.1	.1	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	44	9
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	9
INDET	7.7	3.3	2.0	1.0	.2	.2	.9	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	127	2
TOTAL	69	137	179	121	102	62	60	24	34	13	1	3	3	0	0	0	0	0	0	808	5
PCT	8.5	17.0	22.2	13.0	12.6	7.7	7.4	3.0	4.2	1.6	.1	.4	.4	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1908-1974

MAY

AREA 0025 SQVA STRAIT E
46.1N 145.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	7.4	.7	4.1	.0	2.9	.0	.0	14.3	2.3	.0	27.1	1.2	.8	.0	54.3
NE	15.0	.1	6.1	.0	1.5	.0	.0	22.3	3.6	.0	24.1	1.9	.0	.0	48.1
E	9.7	.0	2.3	.0	2.2	.0	.0	14.0	1.6	.3	29.5	1.2	1.2	.3	52.3
SE	8.4	.0	3.3	.0	3.0	.0	.0	14.4	1.5	.0	28.8	.7	.1	.0	54.6
S	5.3	.2	1.8	.0	.0	.0	.0	7.4	1.5	.0	26.4	.6	.5	.4	63.2
SW	3.4	.5	.5	.0	.1	.0	.0	4.5	.8	.0	19.3	.4	.7	.4	74.0
W	3.0	.3	1.0	.0	1.0	.0	.0	5.2	.8	.0	12.4	.6	.0	.6	80.4
NW	3.8	.6	1.8	.0	4.7	.0	.0	9.5	1.8	.0	15.2	.5	.1	.1	72.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0	.5	1.5	.0	.0	.0	.0	5.0	1.0	.0	28.7	1.0	.5	.5	63.4
TOT PCT	6.7	.3	2.4	.0	1.5	.0	.0	10.6	1.6	*	23.4	.9	.4	.3	62.7
TOT OBS:	2743														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	5.9	.0	2.3	.0	1.4	.0	.0	9.2	1.4	.0	24.6	1.0	.5	.3	63.0
06009	6.3	.5	2.2	.0	2.0	.0	.0	10.8	1.9	.0	21.8	.9	.3	.3	64.0
12015	8.3	.3	3.0	.0	1.6	.0	.0	12.8	2.0	.0	18.7	.7	.4	.0	65.4
18021	6.8	.5	2.3	.0	1.6	.0	.0	11.3	1.3	.2	26.8	.5	.9	.4	58.9
TOT PCT	6.8	.3	2.4	.0	1.7	.0	.0	10.9	1.7	*	22.8	.8	.5	.2	63.1
TOT OBS:	2898														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	.9	4.1	3.6	.8	*	.0		9.4	11.6		9.0	10.4	6.4	11.2	7.7	13.3	9.9	14.2
NE	1.2	5.1	4.6	1.6	.3	.0		12.8	12.8		11.6	17.4	10.6	17.8	11.9	11.0	10.7	16.7
E	1.2	4.8	4.0	1.0	.1	.0		11.1	11.4		11.4	11.0	9.5	12.1	11.6	13.5	9.1	12.7
SE	1.1	5.0	3.0	.9	*	.0		10.0	10.7		9.9	11.4	10.2	11.0	9.0	8.3	6.9	15.8
S	1.4	6.1	6.4	1.2	*	.0		15.0	11.7		15.4	14.4	18.0	15.1	17.3	9.1	12.5	12.2
SW	1.3	6.3	6.3	.9	.1	.0		14.8	11.7		16.2	12.6	15.1	14.0	14.3	19.6	14.7	12.0
W	.6	4.6	4.4	1.0	.1	.0		10.6	12.4		10.0	13.2	12.9	8.2	10.4	8.8	12.5	5.9
NW	.6	3.7	3.8	1.3	.2	.0		9.4	13.7		8.1	6.3	12.0	6.0	9.7	10.2	12.3	8.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.8							6.8	.0		8.5	3.4	5.4	4.6	8.1	6.1	11.4	2.3
TOT OBS	384	1018	921	221	21	0	2565		11.1		517	235	443	195	480	181	299	215
TOT PCT	15.0	39.7	35.9	8.6	.8	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40							00	03	06	12	18
N	2.7	4.2	2.3	.2	.0			9.4	11.6		9.4	7.8	9.2	11.7	
NE	3.5	5.4	3.0	.9	.0			12.8	12.8		13.4	12.8	11.7	13.2	
E	3.8	4.6	2.3	.4	.0			11.1	11.4		11.3	10.3	12.1	10.6	
SE	3.7	4.2	1.7	.4	.0			10.0	10.7		10.3	10.4	8.8	10.6	
S	4.6	7.0	3.1	.4	.0			15.0	11.7		15.1	17.1	15.1	12.4	
SW	4.2	7.0	3.4	.2	.0			14.8	11.7		15.0	14.7	15.7	13.6	
W	2.7	5.3	2.1	.4	.0			10.6	12.4		11.0	11.5	10.0	9.8	
NW	2.0	4.3	2.3	.8	*			9.4	13.7		7.5	10.2	9.9	10.6	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	6.8							6.8	.0		6.9	5.2	7.6	7.6	
TOT OBS	874	1076	518	96	1	2565			11.1		752	630	661	514	
TOT PCT	34.1	41.9	20.2	3.7	*			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1908-1974

MAY

AREA 0025 SOYA STRAIT E
46.1N 145.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	6.9	8.1	39.9	36.2	8.0	.9	.0	11.1	100.0	752
0600Z	5.2	8.2	37.8	37.9	9.6	1.4	.0	11.8	100.0	638
1201Z	7.6	6.2	40.7	36.9	8.2	.5	.0	11.1	100.0	661
1802Z	7.6	10.9	40.5	31.7	6.9	.4	.0	10.4	100.0	514
TOT	174	210	1018	921	221	21	0	11.1		2565
PCT	6.8	8.2	39.7	35.9	8.6	.8	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.7	.4	1.0	4.2		6.3
NE	.8	.4	1.3	7.9		7.0
E	1.6	.4	1.6	7.9		6.5
SE	1.7	.6	1.4	6.1		6.2
S	5.8	1.6	3.2	6.2		4.6
SW	5.5	2.4	3.7	4.7		4.3
W	2.8	.7	3.3	3.7		5.1
NW	1.8	.7	2.6	4.5		5.8
VAR	.0	.0	.0	.0		.0
CALM	3.0	.9	1.3	3.7		4.7
TOT OBS	404	138	332	834	1708	5.5
TOT PCT	23.7	8.1	19.4	48.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	NH <5/8 TOTAL OBS
N	1.4	.0	.1	.3	1.4	1.5	.2	.0	.1	.1	1.3
NE	2.6	.1	.2	.8	1.6	2.3	.6	.2	.4	.2	1.6
E	3.5	.1	.1	.6	1.5	1.8	.7	.2	.1	.3	2.5
SE	2.2	.1	.1	.6	1.2	1.8	.5	.1	.1	.4	2.8
S	2.7	.1	.2	.5	1.2	1.8	.7	.4	.3	.5	8.5
SW	1.9	.1	.4	1.3	1.5	1.1	.3	.2	.4	.9	9.2
W	1.0	.1	.3	.2	1.0	2.0	1.0	.3	.0	.4	4.3
NW	1.2	.1	.2	.2	1.4	2.3	.9	.1	.3	.0	3.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8	.0	.1	.0	.8	.9	.4	.1	.1	.4	4.3
TOT OBS	310	7	23	60	192	273	104	26	26	44	643
TOT PCT	18.1	.4	1.3	3.5	11.2	16.0	6.1	1.5	1.5	2.6	37.6

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.8	3.7	3.8	3.8	4.6	4.0	4.1	4.2
>5000	2.8	5.1	5.3	5.4	5.5	5.5	5.6	5.7
>3500	7.2	10.9	11.3	11.4	11.5	11.6	11.8	11.8
>2000	14.1	24.0	26.5	26.9	27.0	27.2	27.5	27.6
>1000	18.2	32.4	37.3	38.1	38.7	38.9	39.2	39.3
>800	19.0	34.7	40.3	41.2	41.9	42.4	42.8	42.8
>300	19.4	35.6	41.4	42.4	43.1	43.6	43.9	44.0
>150	19.5	35.9	41.7	42.7	43.3	43.9	44.3	44.4
>0	19.6	37.3	46.0	48.7	51.0	53.5	62.0	62.5
TOTAL	351	668	824	873	915	996	1112	1120

TOTAL NUMBER OF OBS: 1793

PCT FREQ NH <5/8 37.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
18.5	3.7	6.5	4.3	4.2	4.7	6.4	5.5	28.9	17.2	1913

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1908-1974

MAY

AREA 0025 SOYA STRAIT E
46.1N 145.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	.2	.3	.2	.2	.0	*	.1	.0	.1	1.4	
	NO PCP	1.1	1.5	2.0	1.7	1.9	1.4	.5	.7	.0	1.4	12.3	
	TOT %	1.5	1.7	2.3	1.9	2.1	1.4	.6	.8	.0	1.5	13.7	
1/2<1	PCP	.1	.3	.2	.3	.1	.1	.0	*	.0	.0	1.0	
	NO PCP	.2	.3	.4	*	.3	.2	.1	.0	.0	.2	1.7	
	TOT %	.3	.6	.5	.3	.4	.3	.1	*	.0	.2	2.8	
1<2	PCP	.2	.6	.3	.2	.2	.1	.1	.3	.0	.0	2.0	
	NO PCP	.3	.5	.5	.4	.2	.1	.1	.1	.0	.1	2.2	
	TOT %	.5	1.1	.8	.6	.4	.2	.1	.4	.0	.1	4.2	
2<5	PCP	.4	.9	.3	.3	.3	.3	.1	.3	.0	.1	3.2	
	NO PCP	.7	.9	.9	.9	1.1	1.0	.7	.7	.0	.6	7.4	
	TOT %	1.1	1.8	1.2	1.2	1.3	1.3	.8	1.0	.0	.7	10.6	
5<10	PCP	.2	.6	.4	.5	.4	*	.2	.2	.0	.2	2.6	
	NO PCP	1.8	2.3	2.5	3.0	4.5	3.8	2.4	1.8	.0	1.1	23.2	
	TOT %	2.0	2.9	2.9	3.5	4.9	3.9	2.5	2.0	.0	1.3	25.8	
10+	PCP	.0	.1	.1	.1	.1	.2	.1	*	.0	*	.7	
	NO PCP	3.0	4.0	3.7	3.1	6.1	7.7	6.2	4.9	.0	3.5	42.3	
	TOT %	3.0	4.1	3.9	3.2	6.1	7.9	6.3	4.9	.0	3.6	43.0	
TOT OBS													2726
TOT PCT		8.4	12.2	11.6	10.6	15.3	15.0	10.4	9.1	.0	7.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.3	.2	.3	.1	.2	.1	*	.2	.0	1.3	2.8	
	4-10	.6	.9	1.0	.8	.5	.6	.3	.4	.0		5.0	
	11-21	.8	.6	.8	.5	.7	.6	.1	.1	.0		4.1	
	22+	.1	.2	.2	.2	.5	*	*	.1	.0		1.2	
	TOT %	1.8	1.9	2.2	1.6	1.8	1.3	.4	.8	.0	1.3	13.2	
1/2<1	0-3	.0	.0	*	.0	*	.1	.0	.0	.0	.2	.4	
	4-10	.1	.2	.3	.2	.2	.1	.1	.1	.0		1.3	
	11-21	.2	.2	.2	.1	.1	.1	*	.0	.0		1.0	
	22+	.0	.3	*	.1	*	*	*	*	.0		.6	
	TOT %	.3	.7	.6	.4	.4	.3	.2	.1	.0	.2	3.2	
1<2	0-3	.1	*	.1	.1	.1	.1	*	*	.0	.2	.8	
	4-10	.3	.5	.5	.4	.2	.3	.1	.1	.0		2.4	
	11-21	.1	.4	.4	.3	.1	.2	*	.2	.0		1.8	
	22+	.2	.2	.1	*	*	*	.1	.1	.0		.8	
	TOT %	.6	1.2	1.0	.8	.5	.6	.2	.4	.0	.2	5.7	
2<5	0-3	.1	.3	*	.0	.2	.1	.1	.0	.0	.7	1.4	
	4-10	.5	.5	.3	.8	.7	.7	.4	.3	.0		4.1	
	11-21	.7	.9	.6	.3	.7	.7	.3	.6	.0		4.7	
	22+	.2	.5	.3	.1	*	.2	.2	.3	.0		1.9	
	TOT %	1.4	2.2	1.2	1.2	1.6	1.7	1.0	1.1	.0	.7	12.0	
5<10	0-3	.2	.2	.3	.6	.4	.3	.1	.1	.0	1.3	3.5	
	4-10	.9	.9	.9	1.3	2.2	1.4	1.0	.9	.0		9.5	
	11-21	.8	1.1	1.0	1.0	1.8	1.6	1.2	.7	.0		9.1	
	22+	.1	.3	.3	.2	.3	.3	.3	.4	.0		2.4	
	TOT %	2.0	2.6	2.5	3.1	4.7	3.6	2.7	2.0	.0	1.3	24.5	
10+	0-3	.3	.5	.4	.3	.5	.5	.3	.3	.0	3.1	6.1	
	4-10	1.6	1.9	1.9	1.7	2.2	3.2	2.7	2.1	.0		17.3	
	11-21	1.1	1.3	1.1	.8	3.0	3.3	2.7	2.1	.0		15.4	
	22+	.2	.3	.1	.2	.2	.4	.5	.6	.0		2.6	
	TOT %	3.2	4.0	3.5	3.0	5.9	7.4	6.2	5.1	.0	3.1	41.4	
TOT OBS													2509
TOT PCT		9.4	12.6	11.1	10.1	15.0	14.9	10.7	9.5	.0	6.7	100.0	

MAY

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1908-1974AREA 0025 SOYA STRAIT E
46.1N 145.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	16.2	.5	1.6	4.1	11.7	14.7	6.2	1.2	1.9	2.8	61.0	39.0	579
06009	14.2	.4	1.2	3.3	12.3	16.1	5.6	2.1	1.2	3.7	60.1	39.9	514
12014	19.4	.2	1.3	3.4	10.3	16.1	5.8	1.7	1.7	1.3	61.3	38.7	465
18021	25.3	.3	.7	2.4	11.5	14.5	7.1	.7	1.0	2.0	65.5	34.5	296
TOT	392	7	23	64	213	286	113	28	28	47	1141	713	1854
PCT	17.9	.4	1.2	3.5	11.5	15.4	6.1	1.5	1.5	2.5	61.5	38.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	13.8	2.7	5.2	11.7	23.8	42.9	891
06009	10.2	3.3	5.1	11.5	24.8	45.1	765
12015	12.5	3.1	5.5	12.9	27.0	39.0	777
18021	19.1	3.5	5.7	13.7	21.1	36.9	597
TOT	412	94	162	374	738	1250	3030
PCT	13.6	3.1	5.3	12.3	24.4	41.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	16.3	20.9	33.4	32.5	34.1	569
06009	14.3	17.9	29.6	35.2	35.2	497
12015	20.0	24.1	35.6	30.9	33.6	444
18021	26.5	28.6	40.3	29.7	30.0	283
TOT	328	396	609	581	603	1793
PCT	18.3	22.1	34.0	32.4	33.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	1.2	.4	.0	.0	4	1.6
55/59	.0	.0	.0	.0	.8	.8	.0	.0	4	1.6
50/54	.0	.0	.0	.4	.8	.8	1.6	.8	11	4.3
45/49	.0	.0	.0	.8	1.2	3.1	3.9	4.3	34	13.2
40/44	.0	.0	.0	.0	3.9	8.9	10.1	16.3	101	39.1
35/39	.0	.0	.0	.0	3.1	5.4	6.6	20.9	93	36.0
30/34	.0	.0	.0	.0	.0	.0	.8	3.5	11	4.3
TOTAL	0	0	0	3	28	50	59	118	258	100.0
PCT	.0	.0	.0	1.2	10.9	19.4	22.9	45.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.3	.1	.0	1.2	.0	.0
.3	.1	.0	.4	.0	.0	.6	.2	.0	.0
.0	.4	.0	.4	1.6	.4	.6	1.0	.0	.0
.4	1.2	1.4	1.2	2.5	2.6	2.0	.8	.0	1.2
1.6	2.8	6.3	5.0	5.6	4.6	5.4	5.1	.0	2.7
4.2	6.9	2.3	1.7	6.2	5.1	2.3	6.1	.0	1.2
.0	1.2	.8	.0	1.1	.2	.7	.0	.0	.4
6.4	12.5	10.8	8.7	17.2	13.0	11.6	14.3	.0	5.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	66	59	54	41	34	32	23	42.2	856
06009	66	58	54	41	34	32	27	42.2	747
12015	66	54	50	39	32	28	24	39.9	745
18021	61	52	46	39	32	28	27	39.1	589
TOT	66	57	52	40	32	30	23	41.0	2937

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	12.5	18.1	19.4	50.0	86	72
06009	.0	1.1	12.5	22.7	23.9	39.8	84	78
12015	.0	1.9	11.3	17.0	28.3	41.5	84	53
18021	.0	1.6	17.5	20.6	17.5	42.9	83	63
TOT	0	3	37	55	61	120	84	276

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1908-1974

MAY

AREA 0025 SOVA STRAIT E
46.1N 145.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
28/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	6	.0	.2
20/22	.0	.0	.0	.0	.0	.0	.0	*	.1	.1	.0	*	5	*	.2
17/19	.0	.0	.0	.0	.0	.0	*	.1	.2	.2	.0	.0	13	.0	.5
14/16	.0	.0	.0	.0	.0	.0	.4	.6	.3	*	.0	.0	42	.2	1.5
11/13	.0	.0	.0	.0	.0	.2	1.4	1.6	.4	.2	.0	.0	94	.7	3.1
9/10	.0	.0	.0	.0	*	.8	2.5	.9	.5	.1	.2	.0	123	.7	4.2
7/8	.0	.0	.0	.0	.6	2.7	2.7	.6	.2	.1	.0	.0	170	1.7	5.2
6	.0	.0	.0	*	.4	1.1	.5	.2	.0	.0	.0	.0	59	.4	2.0
5	.0	.0	.0	.2	1.9	3.7	2.3	.4	.2	.0	.0	.0	215	1.7	7.0
4	.0	.0	.0	.8	4.3	3.7	2.1	.5	.2	.0	*	.0	285	3.8	7.8
3	.0	.0	.0	.5	2.2	1.7	.6	.2	.0	.0	.0	.0	127	1.1	4.0
2	.0	.0	.1	2.0	6.2	3.2	1.5	.2	.1	.0	.0	.0	329	4.0	9.3
1	.0	.0	*	.9	2.1	1.4	.4	.1	.0	*	.0	.0	125	.8	4.2
0	.0	.0	.5	4.2	4.6	2.1	1.0	.1	.0	.0	.0	.0	308	3.3	9.1
-1	.0	.0	.2	1.1	1.6	.6	.2	.1	.0	.0	.0	.0	96	.8	3.0
-2	.0	.0	.5	1.7	2.6	1.0	.4	.0	.0	.0	.0	.0	153	1.7	4.5
-3	.0	*	.1	.7	.7	.3	.2	.0	.0	.0	.0	.0	53	.4	1.7
-4	.0	.1	.7	1.5	1.1	.7	.2	.0	.0	.0	.0	.0	104	1.2	3.0
-5	.0	.2	.3	1.1	.6	.4	*	.0	.0	.0	.0	.0	68	.5	2.3
-6	.0	.1	.2	.2	.2	.3	.0	.0	.0	.0	.0	.0	26	.1	.9
-7/-8	.0	.0	.2	.4	.3	.2	*	.0	.0	.0	.0	.0	28	.2	.9
-9/-10	.0	.1	.3	.2	.3	.2	.1	.0	.0	.0	.0	.0	28	.2	.9
-11/-13	.0	.0	.1	.2	.1	*	.0	.0	.0	.0	.0	.0	11	*	.4
-14/-16	*	.0	*	.1	*	*	.0	.0	.0	.0	.0	.0	7	.0	.3
TOTAL	1		83		745		412		60		8		2476	586	1890
PCT	*	.5	3.4	15.7	30.1	24.2	16.6	5.3	2.4	1.3	.3	.1	100.0	23.7	76.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.1	.0	.0	.0	.0	1.2	*	.9	.1	.0	.0	.0	1.1
1-2	.1	.8	1.1	.0	.0	.0	2.0	.2	1.5	.1	.0	.0	.0	2.8
3-4	.0	.5	.8	.1	.0	.0	1.4	.0	.6	1.1	.3	.0	.0	2.4
5-6	.0	.1	1.1	.2	.0	.0	1.3	.1	.2	1.0	.2	.0	.0	1.5
7	.0	.1	.3	.4	.0	.0	.9	.0	.0	.7	.5	.1	.0	1.3
8-9	.0	.0	.4	.1	.0	.0	.5	.0	.0	.4	.4	.1	.0	.9
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.1	*	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.3
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.6	3.7	.9	.0	.0	7.4	.3	3.2	5.0	1.9	.4	.0	10.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.3	.2	.0	.0	.0	2.2	.3	1.5	.1	.0	.0	.0	1.9
1-2	.1	1.5	1.7	.0	.0	.0	3.2	.1	1.0	1.4	.0	.0	.0	2.4
3-4	.0	.2	1.0	.2	.0	.0	1.4	.0	.7	1.4	.6	.0	.0	2.7
5-6	.0	.1	1.2	.1	.0	.0	1.4	.0	.1	.5	.3	.0	.0	.9
7	.0	.2	.4	.2	.0	.0	.8	.0	.1	.2	.2	.1	.0	.6
8-9	.0	.0	.2	.3	.0	.0	.5	.0	.0	*	*	.0	.0	*
10-11	.0	.0	.1	.2	.1	.0	.4	.0	.0	.1	*	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.3	4.8	1.2	.1	.0	10.3	.4	3.5	3.7	1.4	.1	.0	9.0

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0025 SOYA STRAIT E
46.1N 149.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	1.3	.3	.0	.0	.0		2.0	.3	1.6	.0	.0	.0	.0		1.9
1-2	.1	2.3	3.8	.0	.0	.0		6.2	.1	2.3	2.9	.0	.0	.0		5.3
3-4	.0	.8	3.2	.4	.0	.0		4.5	.0	.8	3.0	.3	.0	.0		4.0
5-6	.0	.1	1.3	.4	.0	.0		1.9	.0	.3	2.4	.6	.1	.0		3.3
7	.0	.1	.6	.6	.1	.0		1.3	.0	*	.4	.1	*	.0		.6
8-9	.0	.0	.1	.2	.0	.0		.3	.0	.0	.2	.1	.0	.0		.4
10-11	.1	.0	.0	.1	.0	.0		.2	*	.0	.1	.1	.0	.0		.2
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	4.7	9.4	1.8	.1	.0		16.3	.5	4.9	9.0	1.2	.1	.0		15.6

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	1.4	.2	.0	.0	.0		1.8	.0	1.1	.2	.0	.0	.0		1.3
1-2	.0	2.0	1.8	.0	.0	.0		3.8	.0	1.7	1.8	.0	.0	.0		3.4
3-4	.0	.7	2.2	.1	.0	.0		3.0	.0	.4	1.6	.5	.0	.0		2.5
5-6	.0	.1	1.5	.3	.0	.0		1.9	.0	.3	.9	.3	.0	.0		1.4
7	.0	.1	.4	.6	.0	.0		1.1	.0	.0	.5	.5	.1	.0		1.2
8-9	.0	.0	.0	.1	.1	.0		.2	.0	.1	.1	.1	.0	.0		.4
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	*	.0	.0		*
12	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.1	.0	.0		.1
13-16	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.0		.1
20-22	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.1	4.3	6.2	1.2	.2	.0		12.0	.0	3.5	5.1	1.6	.1	.0		91.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	10.0	10.3	1.2	.0	.0	.0	21.5	085
1-2	.7	13.0	15.5	.0	.0	.0	29.1	
3-4	.0	4.9	14.5	2.6	.0	.0	22.0	
5-6	.1	1.3	9.8	2.4	.1	.0	13.6	
7	.0	.7	3.5	3.3	.4	.0	7.8	
8-9	.0	.1	1.5	1.5	.2	.0	3.2	
10-11	.1	.0	.6	.7	.1	.0	1.4	
12	.0	.0	.1	.6	.1	.0	.7	
13-16	.0	.0	.1	.1	.2	.0	.4	
17-19	.0	.0	.1	.1	.0	.0	.2	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.8	30.1	46.8	11.2	1.1	.0	100.0	1356

PERIOD: (OVER-ALL) 1950-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	15.6	13.5	7.7	3.4	.8	.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	741	3
6-7	.1	1.3	3.9	4.6	3.2	2.8	.9	.8	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	308	6
8-9	.0	.4	1.4	1.4	1.3	.8	.9	.4	.5	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	125	7
10-11	.0	1.3	.5	.4	.5	1.0	.4	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	73	6
12-13	.0	.0	.8	.2	.1	.2	.2	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	33	8
>13	.0	.0	.0	.2	.3	.1	.2	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	19	9
INDET	10.2	6.4	4.2	2.0	1.0	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	424	2
TOTAL	205	481	419	283	170	106	56	23	14	8	4	3	1	0	0	0	0	0	0	1723	4
PCT	11.9	25.0	24.3	16.4	9.9	6.2	3.3	1.3	.8	.5	.2	.2	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1908-1974

JUNE

AREA 0025 SOVA STRAIT E
46.2N 144.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	8.5	1.4	4.2	.0	.0	.0	.3	14.3	.3	.0	29.2	.8	.3	.0	55.0
NE	8.8	.4	4.3	.0	.0	.0	.0	13.4	2.5	.0	33.7	.1	.0	.0	50.3
E	12.0	.7	4.3	.0	.0	.0	.0	16.7	2.4	.0	29.5	.7	.0	.0	50.6
SE	6.9	.9	3.7	.0	.0	.0	.0	11.6	2.5	.0	34.3	.9	.6	.2	50.0
S	3.8	.1	1.2	.0	.0	.0	.0	5.1	.8	.0	35.0	.8	.4	.2	57.7
SW	2.6	.0	2.3	.0	.0	.0	.0	5.0	.6	.0	34.1	.7	.2	.0	59.4
W	3.4	.0	2.0	.0	.0	.0	.0	5.4	1.0	.0	31.7	.7	.2	.4	60.6
NW	2.3	.0	2.3	.0	.0	.0	.0	4.7	3.0	.0	21.2	1.9	.2	.0	69.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5	.3	2.5	.0	.0	.0	.0	5.3	.9	.0	41.8	.0	.6	.0	51.4
TOT PCT	6.0	.4	3.0	.0	.0	.0	*	9.4	1.6	.0	32.9	.7	.3	.1	55.1
TOT OBS:	3943														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA	
00003	5.9	.3	2.2	.0	.0	.0	.0	8.4	1.4	.0	34.3	.8	.3	.0	54.9	
06009	5.7	.5	2.7	.0	.0	.0	.0	8.7	1.9	.1	29.0	.5	.2	.3	59.4	
12015	5.6	.7	3.8	.0	.0	.0	.1	10.1	2.0	.0	32.8	.9	.4	.0	53.8	
18021	7.1	.2	3.6	.0	.0	.0	.1	11.0	1.0	.0	36.7	.6	.4	.0	50.3	
TOT PCT	6.0	.4	3.0	.0	.0	.0	*	9.5	1.6	*	33.0	.7	.3	.1	54.8	
TOT OBS:	4124															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.9	3.4	2.4	.8	*	.0		8.0	11.4	7.9	6.5	8.3	10.2	7.1	10.2	7.6	7.2		
NE	1.1	6.1	3.4	.9	.1	.0		11.5	10.6	9.5	13.7	9.1	13.8	12.3	12.6	11.2	13.0		
E	1.4	7.0	4.7	.6	.1	.0		13.7	10.5	12.8	18.5	16.5	12.6	12.9	10.7	12.8	12.0		
SE	1.7	8.0	5.4	.9	*	.0		16.0	10.2	18.4	13.7	15.9	17.5	17.0	15.5	14.0	13.6		
S	1.5	9.8	5.6	.6	.0	.0		17.4	9.6	17.4	15.4	17.2	14.5	19.7	19.5	17.1	17.3		
SW	1.7	7.3	4.8	.4	.0	.0		14.2	9.3	13.9	15.2	13.0	17.6	12.0	17.4	12.8	16.2		
W	.8	3.9	1.9	.2	.0	.0		6.4	8.7	6.2	9.3	6.5	6.0	4.0	6.8	8.1	5.7		
NW	.7	2.6	1.7	.2	.0	.0		5.1	9.6	5.6	5.9	6.6	3.8	3.7	3.8	4.8	6.5		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	7.7							7.7	.0	8.4	1.9	7.0	4.0	11.3	3.5	11.6	8.4		
TOT OBS	648	1792	1112	166	8	0	3726		9.2	693	371	615	325	671	288	464	299		
TOT PCT	17.4	48.1	29.8	4.5	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00					06	12	18		
		03	09	15	21									
N	2.4	3.8	1.5	.2	.0		8.0	11.4	7.4	9.0	8.0	7.4		
NE	4.1	5.1	2.1	.1	*		11.5	10.6	10.9	10.7	12.4	11.9		
E	4.8	6.4	2.3	.2	*		13.7	10.5	14.8	15.1	12.2	12.5		
SE	5.8	7.7	2.3	.2	.0		16.0	10.2	16.8	16.4	16.6	13.9		
S	6.6	8.5	2.3	.1	.0		17.4	9.6	16.7	16.2	19.7	17.2		
SW	5.6	7.1	1.5	*	.0		14.2	9.3	14.3	14.6	13.6	14.1		
W	2.7	3.2	.5	.1	.0		6.4	8.7	7.3	6.4	4.8	7.1		
NW	1.9	2.4	.7	*	.0		5.1	9.6	5.7	5.6	3.7	5.5		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	7.7						7.7	.0	6.1	6.0	9.0	10.4		
TOT OBS	1548	1645	494	37	2	3726		9.2	1064	940	959	763		
TOT PCT	41.5	44.1	13.3	1.0	.1		100.0		100.0	100.0	100.0	100.0		

JUNE

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1908-1974AREA 0025 SOVA STRAIT E
46.2N 144.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	6.1	9.7	49.4	29.3	5.3	.2	.0	9.5	100.0	1064
06009	6.0	9.5	49.5	34.4	4.4	.3	.0	9.7	100.0	940
12015	9.0	9.0	50.3	27.3	4.3	.2	.0	9.0	100.0	959
18021	10.4	11.0	46.7	28.2	3.7	.1	.0	8.6	100.0	763
TOT	286	362	1792	1112	166	8	0	9.2		3726
PCT	7.7	9.7	48.1	29.8	4.5	.2	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.3	1.2	5.5		7.0
NE	.8	.3	1.4	7.5		7.0
E	1.3	.4	2.1	11.0		7.0
SE	2.7	.8	2.0	9.4		6.2
S	4.8	1.5	2.5	7.9		5.2
SW	4.1	1.1	1.9	5.0		4.9
W	1.7	.9	1.3	3.0		5.3
NW	1.4	.5	1.5	3.2		5.7
VAR	.0	.0	.0	.0		.0
CALM	2.2	.8	1.5	5.9		5.8
TOT OBS	481	164	379	1436	2460	6.0
TOT PCT	19.6	6.7	15.4	58.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	5499	7999			
N	1.5	.0	.1	.2	1.5	2.2	.4	*	.3	.2	1.0	
NE	3.1	*	.2	.2	1.8	2.1	.7	.2	.2	.1	1.4	
E	4.2	*	.1	.7	2.8	2.7	1.1	.3	.2	.1	2.6	
SE	4.4	.1	.3	.7	2.1	2.1	.7	.2	.7	.2	3.9	
S	4.7	.1	.2	.5	1.0	1.8	.7	.2	.3	.2	6.9	
SW	2.9	*	.1	.2	1.0	1.3	.5	.1	*	.2	5.8	
W	1.2	*	*	.2	.7	1.2	.2	.1	.1	.0	3.1	
NW	1.0	.1	*	.2	.9	1.4	.5	.0	.1	.1	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.8	.1	.1	.3	.9	1.1	.6	*	*	.2	3.2	
TOT OBS	659	13	28	79	312	392	132	30	38	34	743	2460
TOT PCT	26.8	.5	1.1	3.2	12.7	15.9	5.4	1.2	1.5	1.4	30.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.8	2.2	2.6	2.6	2.7	2.8	2.8	2.8
>5000	2.3	3.2	3.8	3.9	3.9	4.0	4.0	4.0
>3500	5.0	7.7	9.0	9.2	9.3	9.5	9.5	9.5
>2000	12.2	20.5	24.2	24.7	25.0	25.5	25.5	25.5
>1000	15.6	29.3	35.3	36.7	37.2	37.9	38.0	38.0
>600	16.3	31.2	38.0	39.6	40.1	41.0	41.1	41.2
>300	16.6	32.0	39.0	40.7	41.3	42.2	42.3	42.4
>150	16.7	32.2	39.4	41.1	41.7	42.7	42.8	42.9
>0	17.1	33.9	42.8	45.9	48.3	53.9	67.6	70.2
TOTAL	435	863	1089	1168	1229	1371	1720	1784

TOTAL NUMBER OF OBS: 2543

PCT FREQ NM <5/8: 29.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
14.4	3.8	5.7	3.1	2.6	2.9	4.2	6.8	30.6	2686

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1908-1974

JUNE

AREA 0025 SOVA STRAIT E
46.2N 144.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.2	.2	.2	.2	.1	.1	.1	.0	.1	1.1	
	NO PCP	1.1	2.2	3.0	3.6	4.2	3.0	1.1	.7	.0	2.5	21.4	
	TOT %	1.1	2.4	3.2	3.7	4.4	3.1	1.2	.8	.0	2.5	22.5	
1/2<1	PCP	.1	.1	.2	.1	*	.1	*	*	.0	*	.7	
	NO PCP	.2	.3	.4	.3	.6	.2	.1	.2	.0	.3	2.7	
	TOT %	.4	.4	.6	.4	.6	.3	.2	.2	.0	.3	3.3	
1<2	PCP	.2	.2	.4	.2	.2	.1	.0	*	.0	.1	1.3	
	NO PCP	.3	.5	.5	.4	.3	.4	.2	.2	.0	.2	2.9	
	TOT %	.5	.7	.9	.6	.5	.5	.2	.2	.0	.2	4.2	
2<5	PCP	.2	.5	.8	.7	.2	.2	.1	*	.0	.1	3.0	
	NO PCP	.6	.9	1.3	1.1	1.2	.8	.6	.3	.0	.6	7.2	
	TOT %	.7	1.4	2.1	1.7	1.5	1.0	.7	.4	.0	.7	10.2	
5<10	PCP	.5	.6	.7	.6	.2	.2	.1	.1	.0	.2	3.1	
	NO PCP	1.9	3.3	2.9	3.0	2.4	2.1	1.2	1.6	.0	1.2	19.6	
	TOT %	2.4	3.8	3.6	3.6	2.6	2.3	1.3	1.6	.0	1.4	22.7	
10+	PCP	.0	*	.1	.1	.1	*	*	.1	.0	.0	.4	
	NO PCP	2.3	2.7	4.2	4.7	7.3	6.6	3.3	2.6	.0	3.2	36.7	
	TOT %	2.3	2.7	4.3	4.8	7.3	6.6	3.3	2.6	.0	3.2	37.1	
TOT OBS													3912
TOT PCT		7.4	11.3	14.7	14.8	16.8	13.8	6.9	5.9	.0	8.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.2	.5	.4	.4	.3	.2	.1	.0	2.3	4.6	
	4-10	.6	1.8	2.1	2.7	2.7	2.0	.9	.5	.0		13.4	
	11-21	.6	.4	1.0	1.6	1.5	1.0	.2	.2	.0		6.4	
	22+	.1	.1	.1	.1	.1	*	*	.0	.0		.5	
	TOT %	1.4	2.5	3.7	4.7	4.7	3.4	1.3	.9	.0	2.3	24.9	
1/2<1	0-3	.1	*	.1	*	*	.1	*	*	.0	.3	.7	
	4-10	.2	.4	.3	.2	.4	.1	.1	.1	.0		1.8	
	11-21	.1	.1	.2	.1	.1	.1	.1	.1	.0		.8	
	22+	*	*	.0	*	*	.0	.0	*	.0		.1	
	TOT %	.4	.6	.6	.3	.6	.3	.2	.1	.0	.3	3.4	
1<2	0-3	*	.1	.1	.1	*	.1	.0	.0	.0	.2	.6	
	4-10	.4	.4	.4	.3	.4	.4	.2	.2	.0		2.8	
	11-21	.1	.2	.4	.2	.2	.2	.1	.1	.0		1.3	
	22+	.1	*	.1	*	.0	.0	.0	.0	.0		.2	
	TOT %	.6	.8	.9	.7	.6	.6	.3	.3	.0	.2	4.9	
2<5	0-3	.1	.2	.1	.2	.2	.2	.1	*	.0	.7	1.8	
	4-10	.5	.6	1.1	.8	1.1	.6	.3	.3	.0		5.2	
	11-21	.5	.5	.8	.6	.5	.5	.3	.1	.0		3.7	
	22+	.2	.4	.2	.3	.0	.1	*	*	.0		1.2	
	TOT %	1.2	1.6	2.2	1.9	1.8	1.3	.8	.5	.0	.7	11.9	
5<10	0-3	.3	.2	.3	.4	.2	.2	.1	.2	.0	1.2	3.1	
	4-10	.8	1.8	1.2	1.6	1.4	1.1	.7	.5	.0		9.0	
	11-21	.7	1.3	1.3	1.1	.9	1.0	.2	.9	.0		7.0	
	22+	.4	.4	.2	.4	.2	.1	.1	.1	.0		1.7	
	TOT %	2.2	3.7	3.0	3.4	2.6	2.4	1.0	1.3	.0	1.2	20.8	
10+	0-3	.2	.3	.5	.7	.6	.8	.3	.3	.0	2.9	6.6	
	4-10	.9	1.2	1.8	2.4	3.9	3.2	1.7	.9	.0		16.0	
	11-21	.9	.8	1.1	1.6	2.4	2.1	.7	.8	.0		10.5	
	22+	.1	.1	.1	.1	.3	.1	.1	.1	.0		.9	
	TOT %	2.0	2.5	3.6	4.8	7.2	6.3	2.8	2.0	.0	2.9	34.0	
TOT OBS													3631
TOT PCT		7.9	11.6	13.9	15.8	17.6	14.3	6.3	5.0	.0	7.6	100.0	

JUNE

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1908-1974AREA 0025 SOVA STRAIT E
46.2N 144.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	26.2	.6	1.1	3.3	11.5	19.6	4.4	1.4	1.6	1.1	71.0	29.0	790
06009	22.0	.7	1.2	2.9	13.7	13.7	6.3	1.4	1.6	2.0	65.5	34.5	695
12015	30.7	.3	1.3	3.3	10.2	14.1	4.9	1.2	1.6	1.5	69.1	30.9	687
18021	30.1	.4	1.6	2.7	15.2	16.1	6.7	.4	.9	.4	74.6	25.4	448
TOT	706	14	33	81	324	419	143	31	39	35	1825	795	2620
PCT	26.9	.5	1.3	3.1	12.4	16.0	5.5	1.2	1.3	1.3	69.7	30.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	24.9	3.4	4.4	11.8	20.0	35.5	1248
06009	18.7	2.5	4.2	11.5	22.4	40.7	1113
12015	24.5	4.2	5.3	12.9	21.3	31.8	1143
18021	27.6	4.3	4.9	12.6	22.4	28.3	859
TOT	1036	155	205	530	934	1503	4363
PCT	23.7	3.6	4.7	12.1	21.4	34.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	26.5	31.4	43.7	31.2	25.0	775
06009	22.5	25.3	37.4	31.5	31.1	679
12015	31.2	36.3	49.1	24.6	26.3	658
18021	31.1	36.2	50.1	29.2	20.6	431
TOT	697	811	1132	744	667	2543
PCT	27.4	31.9	44.5	29.3	26.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.2	.0	.0	.0	.0	.0	.0	1	.2
60/64	.0	.7	.0	.0	.2	.2	1.2	.0	10	2.4
55/59	.0	.0	.5	.2	1.7	.7	1.5	1.5	25	6.1
50/54	.0	.0	1.0	2.2	1.0	3.4	5.6	7.0	83	20.1
45/49	.0	.0	.0	1.0	3.6	6.3	6.3	24.7	173	41.9
40/44	.0	.0	.0	.0	1.0	2.2	3.6	14.0	86	20.8
35/39	.0	.0	.0	.0	.0	.7	.2	7.3	34	8.2
30/34	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	0	4	6	14	31	56	76	226	413	100.0
PCT	.0	1.0	1.5	3.4	7.5	13.6	18.4	54.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
60/64	.0	.2	.2	.5	.9	.1	.0	.0	.0	.5
55/59	.0	.0	.6	1.6	1.4	.7	.3	1.0	.0	.2
50/54	1.5	1.6	1.9	3.6	4.7	1.7	.8	1.6	.0	2.7
45/49	3.8	2.5	7.2	4.6	7.1	3.0	2.6	5.9	.0	5.3
40/44	2.0	.8	2.6	3.8	4.1	1.8	1.6	2.6	.0	1.5
35/39	.8	1.4	1.0	2.1	1.3	.0	.2	.5	.0	.7
30/34	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
TOTAL	8.4	6.5	13.6	16.5	19.6	7.3	5.8	11.6	.0	10.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	73	68	61	48	37	32	30	48.6	1253
06009	74	70	62	49	39	34	30	49.8	1116
12015	73	61	56	46	37	32	28	46.4	1152
18021	70	63	55	46	37	32	30	46.0	869
TOT	74	66	59	47	37	32	28	47.8	4390

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	7.1	10.7	10.7	17.0	54.5	85	112
06009	.0	3.2	4.8	16.0	24.0	52.0	87	125
12015	.0	8.8	8.8	10.8	20.6	51.0	85	102
18021	.0	4.8	8.3	17.9	7.1	61.9	87	84
TOT	0	25	34	58	76	230	86	423

JUNE

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1908-1974

TABLE 17

AREA 0025 82°4 51'N 17°E
44.2% 144.9EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT FOG	NO FOG
>30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.0
23/25	.0	.0	.0	.0	.0	.0	.1	.2	.1	.1	.0	.0	15	.1
20/22	.0	.0	.0	.0	.0	.0	.2	.1	.3	.1	.1	.0	30	.0
17/19	.0	.0	.0	.0	.0	.3	.1	.3	.3	.1	.1	.0	48	.4
14/16	.0	.0	.0	.0	.4	.3	.4	.4	.5	.2	.1	.0	87	.7
11/13	.0	.0	.0	.1	.6	.8	1.0	1.0	.3	.2	.0	.0	155	1.0
9/10	.0	.0	.0	.1	.7	1.1	1.6	.6	.4	.0	.0	.0	176	1.1
7/8	.0	.0	.1	.2	1.7	1.7	1.5	.6	.3	.0	.0	.0	233	1.9
6	.0	.0	.0	.2	.7	.7	.5	.2	.0	.1	.0	.0	95	.5
5	.0	.0	.1	.8	2.8	2.1	1.7	.6	.2	.0	.1	.0	325	2.5
4	.0	.0	.1	1.6	3.6	2.9	1.4	.6	.1	.0	.0	.0	400	3.1
3	.0	.0	.4	.7	1.6	.9	.4	.2	.0	.0	.0	.0	188	1.6
2	.0	.2	1.1	2.1	3.6	2.4	1.1	.4	.1	.0	.0	.0	503	4.3
1	.0	.0	.9	1.5	1.9	.9	.4	.1	.0	.0	.0	.0	227	1.9
0	.2	.9	2.1	2.2	4.7	1.5	.9	.2	.1	.0	.0	.0	479	4.7
-1	.0	.2	.6	.9	1.4	.7	.4	.1	.0	.0	.0	.0	167	1.3
-2	.1	.3	1.3	1.5	2.3	1.1	.4	.1	.0	.0	.0	.0	277	2.7
-3	.0	.2	.4	.4	.7	.4	.1	.0	.0	.0	.0	.0	81	.7
-4	.1	.2	.7	1.0	1.1	.4	.1	.0	.0	.0	.0	.0	138	1.6
-5	.1	.2	.8	.6	.7	.2	.1	.0	.0	.0	.0	.0	106	1.0
-6	.0	.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	26	.3
-7/-8	.1	.1	.4	.4	.2	.1	.0	.0	.0	.0	.0	.0	56	.6
-9/-10	.1	.1	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	32	.3
-11/-13	.1	.0	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	23	.2
-14/-16	.1	.1	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	18	.1
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0
-20/-22	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
TOTAL	27	84	376	585	740	483	226	103	31	5	5	1	3884	1275
PCT	.7	2.2	9.7	15.1	31.1	19.1	12.4	5.8	2.7	.8	.3	.1	100.0	32.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.9	.1	.0	.0	.0	1.1	.6	1.4	.1	.0	.0	.0	2.1
1-2	.2	.6	1.2	.0	.0	.0	2.1	.0	1.7	1.0	.0	.0	.0	2.8
3-4	.0	.4	1.3	.3	.0	.0	2.0	.1	.6	1.2	.2	.0	.0	2.0
5-6	.0	.1	.7	.2	.0	.0	.9	.0	.2	.8	.2	.0	.0	1.3
7	.0	.0	.2	.2	.1	.0	.5	.0	.1	.4	.5	.0	.0	.9
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.4	.2	.1	.0	.7
10-11	.0	.1	.0	.0	.0	.0	.1	.0	.0	.3	.2	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.1	3.5	1.0	.1	.0	7.0	.6	3.9	4.2	1.3	.1	.0	10.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	2.1	.1	.0	.0	.0	2.5	.8	2.1	.2	.0	.0	.0	3.1
1-2	.1	2.6	1.7	.0	.0	.0	4.4	.4	3.1	2.8	.0	.0	.0	6.2
3-4	.0	.9	2.3	.2	.0	.0	3.5	.0	1.2	2.5	.4	.0	.0	4.1
5-6	.0	.3	.8	.2	.0	.0	1.3	.0	.4	1.4	.2	.0	.0	2.0
7	.0	.3	.6	.2	.0	.0	1.1	.0	.1	.4	.3	.0	.0	.7
8-9	.1	.0	.1	.2	.1	.0	.4	.0	.1	.2	.3	.0	.0	.5
10-11	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.2	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.3	5.9	.7	.1	.0	13.7	1.1	7.1	7.6	1.2	.0	.0	17.0

PERIOD: (OVER-ALL) 1963-1974

JUNE

AREA 0025 SOYA STRAIT E
46.2N 144.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.4	3.6	.4	.0	.0	.0	4.3	.4	1.4	.3	.0	.0	.0	.0	2.0
1-2	.2	3.3	3.6	.0	.0	.0	7.3	.7	3.2	2.7	.0	.0	.0	.0	6.6
3-4	.0	1.4	2.4	.4	.0	.0	4.2	.0	.6	2.2	.1	.0	.0	.0	3.0
5-6	.0	.1	1.0	.3	.0	.0	1.4	.0	.2	.5	.1	.0	.0	.0	.8
7	.0	.1	.3	.1	.0	.0	.5	.0	.2	.2	.1	.0	.0	.0	.6
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	8.7	7.7	.9	.0	.0	17.9	1.1	5.7	6.0	.4	.0	.0	13.2	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.1	1.4	.2	.0	.0	.0	1.7	.2	1.0	.0	.0	.0	.0	.0	1.2	
1-2	.1	1.3	.6	.0	.0	.0	2.0	.1	.6	1.0	.0	.0	.0	.0	1.8	
3-4	.0	.4	.8	.0	.0	.0	1.2	.1	.3	.7	.0	.0	.0	.0	1.1	
5-6	.0	.0	.3	.0	.0	.0	.4	.0	.1	.2	.1	.0	.0	.0	.4	
7	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.1	.0	.0	.0	.2	
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.2	1.9	.2	.0	.0	5.6	.4	2.0	2.1	.3	.0	.0	4.8	89.2	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	13.7	13.8	1.3	.0	.0	.0	28.7	
1-2	1.9	16.9	14.5	.0	.0	.0	33.3	
3-4	.2	5.8	13.5	1.7	.0	.0	21.1	
5-6	.0	1.5	5.7	1.2	.0	.0	8.5	
7	.0	.8	2.3	1.7	.1	.0	4.8	
8-9	.1	.2	.8	.9	.2	.0	2.1	
10-11	.0	.1	.4	.3	.1	.0	.8	
12	.0	.1	.2	.0	.0	.0	.2	
13-16	.1	.0	.2	.1	.0	.0	.3	
17-19	.0	.1	.1	.1	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.9	39.1	38.8	6.0	.3	.0	100.0	1865

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SFC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	19.8	14.3	5.3	2.4	.6	.2	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1059	3
6-7	.0	2.9	5.3	3.3	2.0	1.3	.7	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	361	5
8-9	.0	.5	1.3	.9	1.1	.6	.4	.3	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	131	6
10-11	.0	1.6	.4	.5	.3	.3	.4	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	90	5
12-13	.0	.0	1.1	.3	.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	5
>13	.0	.0	.0	.4	.1	*	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	7
INDPT	13.3	6.2	4.8	2.2	1.0	.3	.1	.0	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	671	2
TOTAL	350	743	653	307	174	78	46	15	20	9	0	3	0	0	0	0	0	0	0	2398	3
PCT	14.6	31.0	27.2	12.8	7.3	3.3	1.9	.6	.8	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1885-1974

JULY

TABLE 1

AREA 0023 SUVA STRAIT E
46-2N 144.9E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	PRECIPITATION TYPE					HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	OTHER WEATHER PHENOMENA				
		RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.7	.0	3.8	.0	.0	.0	.0	7.4	.0	.0	35.2	1.1	.0	.0	50.9
NE	7.6	.0	.0	.0	.0	.0	.0	13.0	2.9	.4	34.7	1.3	.0	.0	45.8
E	9.9	.1	5.2	.0	.0	.0	.0	13.2	1.8	.0	27.5	1.8	.0	.0	53.1
SE	7.9	1.3	3.3	.0	.0	.0	.0	12.5	2.2	.0	34.0	1.0	.7	.0	49.7
S	4.3	.2	2.4	.0	.0	.0	.0	7.0	1.3	.2	40.7	.6	1.2	.0	49.0
SW	2.9	.0	1.1	.0	.0	.0	.0	4.0	.5	.4	33.7	.6	.3	.0	60.4
W	2.6	.0	.0	.0	.0	.0	.0	2.6	1.1	.0	29.6	1.8	1.5	.0	63.3
NW	2.3	.0	5.3	.0	.0	.0	.0	7.7	1.2	.0	28.4	2.7	1.2	.0	58.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0	.3	2.1	.0	.0	.0	.0	5.4	1.2	.3	47.8	1.2	1.2	.3	43.0
TOT PCT	5.5														
TOT OBS:	3686	.3	3.5	.0	.0	.0	*	9.3	1.6	.2	35.2	1.1	.8	.1	51.8

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	PRECIPITATION TYPE					HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	OTHER WEATHER PHENOMENA				
		RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.8	.3	3.3	.0	.0	.0	.1	8.4	1.9	.0	35.8	.8	1.1	.0	52.1
06009	4.3	.1	2.6	.0	.0	.0	.0	6.9	.0	.0	30.5	.9	.6	.0	60.2
12015	7.6	.4	4.3	.0	.0	.0	.0	12.3	1.9	.4	34.3	1.8	1.1	.1	48.1
18021	5.7	.3	4.1	.0	.0	.0	.0	10.0	1.5	.4	41.5	1.4	.5	.0	44.9
TOT PCT	5.5														
TOT OBS:	3621	.3	3.5	.0	.0	.0	*	9.2	1.5	.2	35.1	1.2	.9	.1	51.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18
N	.9	3.9	2.3	.5	.1	.0										
NE	1.5	6.6	4.3	.6	.0	.0				6.7	8.0	8.8	6.4	8.4	7.6	8.6
E	1.6	7.9	4.7	.5	*	.0				13.2	13.5	12.5	10.8	13.4	12.5	14.0
SE	1.5	8.5	4.2	.5	.1	.0				14.8	9.9	14.0	18.8	17.7	15.3	14.0
S	1.8	8.9	5.1	.3	.0	.0				14.8	9.5	14.8	13.9	16.5	14.9	10.6
SW	1.9	7.8	3.8	.3	.0	.0				16.0	9.3	17.6	13.4	14.9	16.1	14.8
W	1.0	4.0	1.5	.1	.0	.0				13.5	8.8	10.4	14.1	13.4	15.6	16.2
NW	.6	2.6	1.7	.2	*	.0				6.6	8.4	5.5	9.0	13.4	17.8	11.4
VAR	.0	.0	.0	.0	.0	.0				5.1	9.5	4.9	4.5	4.1	9.2	6.0
CALM	8.5									.0	.0	.0	.0	.0	.0	.0
TOT OBS	700	1827	992	113	6	0	3638	8.5	8.6	12.8	4.8	9.0	4.7	9.1	4.1	11.7
TOT PCT	19.2	50.2	27.3	3.1	.2	.0		100.0		682	440	586	344	605	269	426
										100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	06	12
N	3.0	3.6	.8	.2	.0						
NE	5.0	5.7	2.1	.1	.0			7.2	7.9	8.2	7.3
E	5.1	7.4	2.2	.1	.0			13.3	11.8	13.1	13.6
SE	6.2	6.6	1.8	.2	.0			15.9	16.8	13.6	12.0
S	6.1	8.1	1.8	*	.0			14.5	16.3	14.2	14.3
SW	5.4	6.9	1.1	.1	.0			16.0	15.1	17.6	15.3
W	2.9	3.2	.5	.0	.0			11.9	15.0	13.0	14.6
NW	2.2	2.2	.6	.1	.0			6.9	6.0	6.8	6.9
VAR	.0	.0	.0	.0	.0			5.1	9.5	3.5	6.0
CALM	8.5				.0			.0	.0	.0	.0
TOT OBS	1621	1589	397	31	3638	8.5		9.6	7.4	7.8	9.6
TOT PCT	44.6	43.7	10.9	.9		100.0		1122	930	874	712
								100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1885-1974AREA 0025 SOVA STRAIT E
46.2N 144.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
0000	9.6	11.6	48.8	26.1	3.7	.2	.0	8.6	100.0	1122	
0600	7.4	10.4	47.6	30.6	3.8	.1	.0	9.2	100.0	930	
1200	7.6	8.6	53.4	27.8	2.5	.1	.0	8.7	100.0	874	
1800	9.6	12.2	51.8	24.0	2.1	.3	.0	8.0	100.0	712	
TOT	31.1	38.9	182.7	99.2	11.3	.6	0	8.6		3638	
PCT	8.5	10.7	50.2	27.3	3.1	.2	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	.4	.3	1.2	5.8		7.2
NE	.5	.2	1.4	11.6		7.3
E	.5	.5	1.8	11.1		7.3
SE	1.1	.7	1.7	12.0		7.1
S	1.4	1.3	1.9	10.4		6.6
SW	1.9	1.0	2.5	6.6		6.1
W	1.0	.3	1.3	2.7		5.8
NW	.4	.4	1.3	3.5		6.7
VAR	.0	.0	.0	.0		.0
CALM	1.4	.3	1.2	8.1		6.7
TOT OBS	189	112	309	1362	2172	6.9
TOT PCT	8.7	5.2	14.2	71.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT-NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	2.6	.0	.2	.3	1.0	1.9	.6	*	.0	.1	1.1	
NE	4.7	.1	.4	1.0	2.4	3.2	.5	.1	.2	.1	1.0	
E	3.2	.1	.3	1.0	3.2	3.4	.7	.2	.1	.1	1.5	
SE	4.4	.2	.3	.5	3.3	3.1	1.0	.1	.2	.1	2.3	
S	5.1	*	.2	.4	2.1	2.3	1.1	.1	.2	.2	3.3	
SW	3.8	.0	.1	.4	1.2	1.8	.5	*	.4	.1	3.4	
W	1.3	.1	.0	.2	.6	.7	.4	*	.2	.1	1.8	
NW	1.4	.1	*	.2	1.0	.9	.3	*	.3	.1	1.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.7	*	*	.3	1.7	1.3	.6	*	*	.1	2.2	
TOT OBS	679	15	36	94	360	403	126	14	30	29	386	2172
TOT PCT	31.3	.7	1.7	4.3	16.6	18.6	5.8	.6	1.4	1.3	17.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.0	2.5	2.6	2.7	2.7	2.8	2.8	2.8
>5000	2.4	3.0	3.2	3.3	3.3	3.4	3.5	3.5
>3500	6.0	8.6	9.1	9.3	9.4	9.4	9.5	9.5
>2000	14.2	23.6	26.1	26.7	27.1	27.4	27.8	27.8
>1000	19.1	35.0	40.6	42.0	42.8	43.5	44.0	44.0
>600	20.4	37.9	44.4	46.1	46.8	47.6	48.2	48.2
>300	20.5	38.4	45.5	47.4	48.2	49.1	49.7	49.8
>150	20.7	38.7	46.0	48.0	48.8	49.7	50.4	50.5
>0	20.9	40.2	50.5	54.1	57.2	63.8	78.7	81.8
TOTAL	464	891	1119	1198	1268	1413	1744	1812

TOTAL NUMBER OF OBS: 2216

PCT FREQ NH <5/8: 18.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	6.4	1.9	3.8	2.9	2.7	3.2	4.4	5.9	39.1	29.8	2376

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1889-1974

JULY

AREA 0025 SDVA STRAIT E
46.2N 144.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.2	.4	.2	.3	.2	.1	.1	.0	.1	1.7	
	NN PCP	1.8	2.7	2.8	3.3	4.3	2.9	1.3	1.2	.0	2.7	23.0	
	TOT %	1.9	2.9	3.2	3.5	4.5	3.1	1.4	1.3	.0	2.9	24.7	
1/2<1	PCP	*	.1	.2	.2	.1	*	*	.0	.0	*	.7	
	NN PCP	.2	.4	.2	.5	.7	.4	.2	.1	.0	.4	3.0	
	TOT %	.2	.4	.4	.7	.8	.5	.2	.1	.0	.5	3.7	
1<2	PCP	.1	.3	.3	.4	.1	*	.0	.1	.0	.1	1.4	
	NN PCP	.3	.4	.6	.6	.4	.3	.1	.2	.0	.3	3.2	
	TOT %	.4	.7	.9	1.0	.5	.4	.1	.3	.0	.4	4.6	
2<5	PCP	.2	.8	.6	.5	.3	.1	*	.1	.0	.1	2.8	
	NN PCP	.8	1.2	1.0	1.3	1.2	1.0	.4	.3	.0	.8	7.7	
	TOT %	.7	2.0	1.6	1.8	1.5	1.1	.5	.4	.0	.9	10.4	
5<10	PCP	.2	.5	.6	.5	.2	.2	*	.1	.0	.1	2.4	
	NN PCP	1.8	2.9	3.0	3.1	3.5	2.7	1.6	1.2	.0	1.4	21.1	
	TOT %	2.1	3.3	3.6	3.6	3.7	2.8	1.6	1.3	.0	1.5	23.5	
10+	PCP	.0	*	.1	.1	.1	.0	.0	.0	.0	*	.4	
	NN PCP	2.3	3.5	4.5	4.4	4.9	5.4	2.8	1.9	.0	2.9	32.6	
	TOT %	2.3	3.5	4.6	4.5	5.1	5.4	2.8	1.9	.0	2.9	33.1	
TOT OBS													
TOT PCT													
		7.5	12.9	14.3	15.1	16.1	13.2	6.7	5.3	.0	9.0	100.0	3657

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.4	.6	.6	.4	.7	.6	.3	.1	.0	2.7	6.4	
	4-10	1.3	1.5	2.0	2.2	2.4	2.3	1.3	1.0	.0		14.1	
	11-21	.3	1.2	1.0	1.0	1.4	1.0	.2	.2	.0		6.2	
	22+	.1	*	.2	.1	*	.1	.0	*	.0		.5	
	TOT %	2.0	3.4	3.8	3.7	4.5	3.9	1.8	1.3	.0	2.7	27.1	
1/2<1	0-3	.1	*	.1	.1	*	.1	*	*	.0	.4	.9	
	4-10	.1	.2	.3	.6	.3	.3	.1	.1	.0		2.4	
	11-21	*	*	*	.1	.2	.1	*	.0	.0		.5	
	22+	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.3	.3	.4	.8	.8	.5	.2	.1	.0	.4	3.7	
1<2	0-3	.1	.1	.1	.1	.1	.1	.0	*	.0	.3	1.0	
	4-10	.2	.3	.5	.6	.4	.3	.2	.1	.0		2.7	
	11-21	.2	.2	.4	.3	.3	.1	*	.1	.0		1.6	
	22+	*	*	.1	.1	.0	.0	.0	*	.0		.3	
	TOT %	.5	.8	1.1	1.1	.8	.6	.2	.3	.0	.3	5.6	
2<5	0-3	.1	.2	.2	.2	.2	.2	.1	.1	.0	.8	1.9	
	4-10	.4	1.2	1.1	1.2	1.1	.7	.3	.1	.0		6.0	
	11-21	.3	.6	.7	.8	.6	.4	.1	.2	.0		3.7	
	22+	.1	.1	.1	.1	*	*	*	*	.0		.5	
	TOT %	.8	2.0	2.0	2.3	1.9	1.3	.6	.5	.0	.8	12.2	
5<10	0-3	.1	.2	.2	.3	.3	.3	.2	.1	.0	1.3	3.0	
	4-10	.7	1.4	1.7	1.8	1.8	1.4	.7	.6	.0		10.1	
	11-21	.9	1.1	1.3	.9	1.3	.9	.5	.5	.0		7.5	
	22+	.2	.2	.1	.1	*	.1	.1	*	.0		.9	
	TOT %	1.9	2.9	3.3	3.1	3.5	2.7	1.6	1.2	.0	1.3	21.6	
10+	0-3	.2	.4	.4	.4	.6	.6	.4	.2	.0	2.8	6.0	
	4-10	1.2	1.7	2.4	2.3	2.7	3.0	1.4	.7	.0		15.3	
	11-21	.6	.8	1.4	1.2	1.3	1.0	.7	.7	.0		7.6	
	22+	.1	.1	.1	.1	.2	.1	*	.1	.0		.8	
	TOT %	2.1	3.0	4.2	4.0	4.7	4.6	2.5	1.7	.0	2.8	29.8	
TOT OBS													
TOT PCT													
		7.6	12.4	14.9	15.0	16.2	13.6	6.8	5.1	.0	8.4	100.0	3525

JULY

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1883-1974AREA 0025 SOYA STRAIT E
46.2N 144.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <3/8 BY HOUR

HR	000	100	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	28.8	.5	2.4	3.7	19.7	20.2	5.3	.3	2.0	1.1	84.0	16.0	756
06009	22.8	.8	2.0	3.6	15.9	22.8	7.2	1.1	1.3	1.8	79.3	20.7	610
12015	37.1	.4	.7	5.0	13.1	13.5	5.7	.6	1.1	1.3	78.4	21.6	542
18021	41.6	1.1	.8	5.1	13.9	14.7	5.1	.5	.8	1.3	85.0	15.0	373
TOT	713	15	37	96	369	420	134	14	32	31	1861	420	2281
PCT	31.3	.7	1.6	4.2	16.2	18.4	5.9	.6	1.4	1.4	81.6	18.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
(GMT)							
00003	25.7	3.8	5.4	11.7	20.8	32.6	1294
06009	21.6	4.6	6.2	9.1	23.1	35.4	1083
12015	30.4	2.7	6.0	14.7	20.1	26.1	1005
18021	32.0	4.0	5.5	13.9	20.8	23.8	803
TOT	1130	158	241	510	888	1258	4185
PCT	27.0	3.8	5.8	12.2	21.2	30.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 3+	TOTAL OBS
(GMT)						
00003	28.7	34.1	47.3	38.9	13.7	735
06009	23.0	28.9	39.5	42.4	18.2	595
12015	37.9	41.1	55.5	27.1	17.4	528
18021	41.9	46.9	59.8	26.5	13.7	358
TOT	698	808	1090	776	350	2216
PCT	31.5	36.5	49.2	35.0	15.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.3	.3	.0	.0	.0	.0	2	.6
70/74	.0	.0	.0	.0	.0	.0	.3	.0	1	.3
65/69	.0	.3	.0	.0	.0	.0	.0	.3	2	.6
60/64	.0	1.3	.0	.0	.0	.0	2.8	5.1	29	9.2
55/59	.0	.3	1.6	.0	.0	.9	4.7	12.7	64	20.3
50/54	.0	.0	1.6	1.9	.0	1.9	6.0	21.2	103	32.6
45/49	.0	.0	.0	.3	1.3	2.8	5.4	19.9	94	29.7
40/44	.0	.0	.0	.0	.0	.0	.3	6.3	21	6.6
TOTAL	0	6	11	8	4	18	62	207	316	100.0
PCT	.0	1.9	3.5	2.5	1.3	5.7	19.6	65.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3
70/74	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
65/69	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0
60/64	.3	.9	.6	1.7	1.8	1.7	1.8	.0	.0	.3
55/59	.3	2.4	2.0	2.2	5.7	3.7	1.7	.7	.0	1.6
50/54	4.7	2.8	4.4	5.4	3.5	4.0	3.6	1.9	.0	2.2
45/49	1.7	5.1	6.6	6.0	1.7	1.9	.2	5.6	.0	.9
40/44	.2	.5	.8	1.4	.2	.3	.6	2.2	.0	.3
TOTAL	7.3	12.0	14.5	16.8	13.1	11.6	8.0	11.1	.0	5.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	81	75	68	55	45	42	34	55.9	1295
06009	81	75	68	55	44	43	34	56.2	1079
12015	81	69	64	54	44	41	34	53.7	1009
18021	79	72	64	54	43	39	34	53.4	823
TOT	81	73	66	54	45	41	34	55.0	4206

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)										
00003	.0	7.0	1.7	5.2	20.0	66.1	88		88	115
06009	.0	8.7	.0	4.9	25.2	61.2	87		87	103
12015	.0	13.2	1.9	3.8	15.1	66.0	86		86	93
18021	.0	4.3	2.1	10.6	10.6	72.3	90		90	47
TOT	0	26	4	18	62	208	88		88	318

JULY

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1885-1974

TABLE 17

AREA 0025 SDVA STRAIT E
46.2N 144.9EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	NO FOG
>30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
26/30	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	4	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	8	.1	.2
20/22	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	.1	.0	10	.1	.1
17/19	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2	.1	.1	19	.2	.3
14/16	.0	.0	.0	.0	.0	.0	.2	.3	.3	.1	.1	.1	45	.5	.8
11/13	.0	.0	.0	.0	.1	.3	.8	1.2	.8	.5	.1	.0	138	1.5	2.4
9/10	.0	.0	.0	.1	.5	.5	1.0	1.2	.6	.3	.1	.0	152	1.6	2.7
7/8	.0	.0	.0	.2	.6	1.7	1.9	2.0	.5	.3	.1	.0	254	2.5	4.6
6	.0	.0	.0	.1	.5	.9	.6	.5	.2	.0	.0	.0	95	1.1	1.6
5	.0	.0	.0	.3	1.2	2.3	2.1	1.9	.4	.1	.1	.0	297	3.3	5.1
4	.0	.0	.1	.9	1.4	2.0	2.6	2.2	.5	.1	.0	.0	346	3.5	6.3
3	.0	.0	.1	.3	1.3	1.0	.6	.5	.1	.0	.0	.0	141	1.3	2.7
2	.0	.0	.3	1.9	3.2	3.0	1.9	1.9	.3	.0	.0	.0	439	4.9	7.5
1	.0	.0	.1	.8	1.1	1.3	.6	.3	.1	.0	.0	.0	154	1.2	3.1
0	.0	.0	.5	2.5	3.3	3.5	2.3	1.2	.2	.0	.0	.0	481	4.6	9.0
-1	.0	.0	.1	.8	1.4	1.0	.4	.1	.1	.0	.0	.0	141	.9	3.1
-2	.0	.1	.4	2.0	2.2	2.0	.8	.4	.1	.1	.0	.0	282	2.9	5.0
-3	.0	.0	.1	.3	.9	1.0	.5	.2	.0	.0	.0	.0	105	.8	2.1
-4	.0	.0	.3	1.5	1.0	.9	.2	.3	.0	.0	.0	.0	150	1.6	2.7
-5	.0	.1	.3	.7	.9	.4	.2	.1	.0	.0	.0	.0	96	1.1	1.6
-6	.0	.0	.1	.2	.3	.2	.1	.0	.0	.0	.0	.0	32	.4	.5
-7/-8	.0	.0	.4	.5	.6	.3	.1	.0	.0	.0	.0	.0	75	.8	1.4
-9/-10	.0	.1	.5	.5	.4	.1	.1	.0	.0	.0	.0	.0	47	.3	1.0
-11/-13	.0	.0	.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	23	.3	.4
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.1	.1
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	4	13	106	497	743	802	613	519	151	63	24	8	3543	1255	2288
PCT	.1	.4	3.0	14.0	21.0	22.6	17.3	14.6	4.3	1.8	.7	.2	100.0	35.4	64.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.2	.0	.0	.0	1.5	.4	1.6	.1	.0	.0	.0	2.2
1-2	.1	2.1	.7	.0	.0	.0	2.8	.3	2.7	1.6	.0	.0	.0	4.5
3-4	.0	.3	1.1	.1	.0	.0	1.5	.0	.8	1.6	.1	.0	.0	2.5
5-6	.0	.2	.8	.2	.0	.0	1.2	.0	.4	1.6	.1	.0	.0	2.2
7	.0	.0	.3	.1	.0	.0	.4	.0	.1	.3	.3	.0	.0	.8
8-9	.0	.1	.1	.1	.0	.0	.2	.0	.0	.2	.1	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.7	3.2	.5	.0	.0	7.8	.7	5.9	5.5	.7	.0	.0	12.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.2	.2	.0	.0	.0	2.7	.3	2.4	.1	.0	.0	.0	2.8
1-2	.2	3.7	1.9	.0	.0	.0	5.9	.3	3.8	2.8	.0	.0	.0	7.0
3-4	.0	1.1	1.8	.3	.0	.0	3.2	.0	.8	2.5	.3	.0	.0	3.6
5-6	.0	.3	1.4	.1	.0	.0	1.8	.0	.2	.9	.2	.1	.0	1.3
7	.0	.0	.4	.1	.0	.0	.6	.0	.0	.4	.1	.0	.0	.5
8-9	.0	.0	.3	.1	.1	.0	.4	.0	.0	.1	.2	.0	.0	.3
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.3	6.1	.8	.1	.0	14.9	.6	7.3	6.9	1.0	.1	.0	15.9

PERIOD: (OVER-ALL) 1963-1974

JULY

AREA 0025 SOYA STRAIT E
46.2N 144.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.6	.3	.0	.0	.0	3.3	.2	1.3	.1	.0	.0	.0	1.6
1-2	.3	3.6	2.7	.0	.0	.0	6.6	.4	2.9	1.9	.0	.0	.0	5.2
3-4	.1	.7	2.7	.2	.0	.0	3.7	.1	.5	1.6	.1	.0	.0	2.3
5-6	.0	.1	1.1	.4	.0	.0	1.3	.0	.1	.6	.1	.0	.0	.8
7	.0	.0	.3	.2	.0	.0	.5	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.1	.2	.1	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	7.1	7.4	.5	.0	.0	15.8	.6	4.9	4.5	.4	.0	.0	10.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.7	.0	.0	.0	.0	1.0	.3	.9	.1	.0	.0	.0	1.4	
1-2	.1	.9	.8	.0	.0	.0	1.8	.1	.9	.9	.0	.0	.0	2.0	
3-4	.0	.2	.6	.0	.0	.0	.8	.0	.3	.6	.1	.0	.0	.9	
5-6	.0	.1	.3	.0	.0	.0	.3	.0	.1	.3	.0	.0	.0	.5	
7	.0	.0	.1	.1	.0	.0	.2	.0	.0	.5	.1	.0	.0	.6	
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	1.9	1.7	.1	.0	.0	4.1	.4	2.3	2.5	.2	.0	.0	5.5	87.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.4	12.8	1.3	.0	.0	.0	29.4	
1-2	1.8	20.6	13.4	.0	.0	.0	35.8	
3-4	.1	4.7	12.4	1.3	.0	.0	18.5	
5-6	.0	1.6	7.1	.8	.1	.0	9.5	
7	.0	.2	2.5	1.0	.0	.0	3.7	
8-9	.0	.1	1.0	.6	.1	.0	1.7	
10-11	.0	.1	.1	.5	.0	.0	.7	
12	.0	.1	.1	.1	.1	.0	.4	
13-16	.0	.1	.0	.1	.0	.0	.1	
17-19	.0	.2	.0	.0	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.1	.0	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.3	40.3	37.8	4.3	.2	.0	100.0	1668

PERIOD: (OVER-ALL) 1954-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	19.8	14.0	6.1	1.4	.7	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1000	3
6-7	.2	2.7	4.1	3.3	2.5	.9	.3	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	326	5
8-9	.0	.9	1.3	1.5	.9	.4	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	127	5
10-11	.0	2.2	.5	.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	4
12-13	.0	.0	.9	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	5
>13	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	9
INDET	13.1	7.3	5.0	2.6	.8	.7	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	682	2
TOTAL	339	750	586	398	197	64	26	16	8	6	5	1	0	0	0	0	0	0	0	2276	3
PCT	14.9	33.0	25.7	14.9	6.0	2.8	1.1	.7	.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1871-1974

AUGUST

AREA 0025 SOVA STRAIT E
45.9N 145.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.8	.2	3.9	.0	.0	.0	.0	7.9	1.8	.0	16.2	.5	.2	.0	73.4
NE	8.9	.2	4.2	.0	.0	.0	.0	13.3	1.7	.0	20.2	1.0	.2	.2	63.4
E	10.5	.3	4.0	.0	.0	.0	.4	15.1	2.7	.4	25.1	.6	.5	.2	55.7
SE	7.4	.2	3.9	.0	.0	.0	.0	11.6	1.7	.2	25.2	1.0	.2	.2	60.1
S	6.4	.5	2.0	.0	.0	.0	.0	8.9	1.1	.1	26.5	.3	.7	.0	62.3
SW	3.8	.3	1.7	.0	.0	.0	.0	5.7	.2	.0	26.9	.3	.5	.0	66.3
W	3.6	.0	3.3	.0	.0	.0	.0	6.9	.9	.0	15.4	.8	.7	.0	75.3
NW	1.5	.1	2.0	.0	.0	.0	.0	3.6	.8	.0	14.4	1.7	.1	.0	79.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9	.3	2.4	.0	.0	.0	.0	5.2	1.5	.5	32.3	.0	.5	.2	60.1
TOT PCT	5.8	.3	3.0	.0	.0	.0	*	9.0	1.4	.1	23.9	.6	.4	.1	64.6
TOT OBS:	4799														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.4	.1	2.7	.0	.0	.0	.1	7.3	1.1	.2	23.9	.6	.7	.1	64.2
06009	3.7	.3	2.0	.0	.0	.0	.0	6.0	1.1	.0	22.9	.7	.2	.1	69.0
12015	8.1	.2	3.9	.0	.0	.0	.1	12.3	1.8	.2	22.1	.4	.3	.2	62.8
18021	7.3	.5	3.4	.0	.0	.0	.0	11.1	1.8	.1	23.2	.7	.5	.1	62.6
TOT PCT	5.8	.3	3.0	.0	.0	.0	*	9.1	1.4	.1	23.6	.6	.5	.1	64.7
TOT OBS:	4979														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	3.8	2.2	.4	.0	.0		7.4	10.0		7.4	5.7	8.5	6.2	6.2	8.3	8.3	9.6
NE	1.1	5.4	3.9	.6	.0	.0		11.0	10.6		9.3	14.7	10.1	13.9	10.8	14.3	9.3	11.8
E	1.5	6.0	3.3	.4	.1	.0		11.4	9.6		11.2	17.9	10.9	11.2	11.3	12.1	8.7	10.2
SE	1.2	7.2	3.7	.6	.0	.0		12.7	9.8		11.8	11.6	14.0	14.0	14.2	10.5	12.4	9.9
S	1.5	8.8	5.8	.9	.0	.0		17.1	10.5		18.0	18.4	15.9	17.4	18.0	20.1	14.8	20.4
SW	1.6	8.4	4.3	.6	.0	.0		14.9	9.6		13.7	14.5	14.6	20.0	12.4	18.8	14.7	18.8
W	1.0	4.6	2.2	.4	.0	.0		8.1	9.1		7.5	11.4	8.2	8.0	7.8	7.9	6.8	10.0
NW	.8	2.9	1.7	.3	.0	.0		5.7	9.6		6.4	3.8	6.0	5.1	5.9	5.5	5.9	4.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.8							11.8	.0		14.7	2.0	11.9	4.2	13.6	2.5	19.1	4.6
TOT OBS	991	2205	1273	193	8	0	4670		8.7		976	397	809	337	944	284	643	280
TOT PCT	21.2	47.2	27.3	4.1	.2	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	2.7	3.5	1.1	.1	.0			7.4	10.0		6.9	7.8	6.7
NE	3.7	5.1	2.1	.0	.0			11.0	10.6		10.9	11.2	11.0
E	4.3	5.5	1.4	.1	.0			11.4	9.6		13.2	11.0	11.5
SE	5.1	5.8	1.5	.2	.0			12.7	9.8		11.7	14.0	13.3
S	5.5	8.7	2.6	.2	.0			17.1	10.5		18.1	16.3	16.9
SW	5.4	7.4	1.9	.1	.0			14.9	9.6		14.0	16.2	13.9
W	3.5	3.7	.8	.1	.0			8.1	9.1		8.6	8.1	7.8
NW	2.3	2.6	.7	.1	.0			5.7	9.6		5.7	5.7	5.8
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0
CALM	11.8							11.8	.0		11.0	9.6	12.5
TOT OBS	2067	1979	576	45	3	4670		8.7			1373	1146	1228
TOT PCT	44.3	42.4	12.3	1.0	.1			100.0			100.0	100.0	100.0

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1871-1974

AUGUST

AREA 0025 SOVA STRAIT E
45.9N 145.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	11.0	9.6	46.3	28.0	5.0	.1	.0	.0	9.0	100.0	1373
04009	9.6	9.2	30.1	27.7	3.3	.1	.0	.0	8.8	100.0	1146
12015	12.5	8.2	47.0	28.5	3.7	.0	.0	.0	8.6	100.0	1228
18021	14.7	10.9	45.3	24.1	4.4	.5	.0	.0	8.4	100.0	923
TOT	581	440	2205	1273	193	.8	.0	.0	8.7		4670
PCT	11.8	9.4	47.2	27.3	4.1	.2	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	.7	1.9	3.4		6.0
NE	1.3	.8	2.4	6.1		6.4
E	.9	.5	1.8	7.3		6.8
SE	1.5	.7	2.3	7.8		6.5
S	1.8	1.6	4.1	9.4		6.3
SW	2.6	1.3	2.9	5.8		5.6
W	2.3	.1	1.6	3.0		5.1
NW	.9	1.0	1.8	2.9		5.7
CALM	.0	.0	.0	.0		.0
TOT OBS	2.7	.9	2.4	8.9	3091	6.0
TOT PCT	4.77	258	659	1697	3091	6.1
	15.4	8.3	21.3	54.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH) >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.9	.1	.2	.4	1.0	1.9	.4	.1	.0	.0	2.4	
NE	2.0	.1	.3	.5	1.9	2.1	.8	.2	.2	.1	2.6	
E	2.8	.0	.2	.4	1.5	2.2	.9	.1	.2	.2	2.1	
SE	3.0	.1	.4	.4	1.8	2.6	.8	.1	.1	.2	2.9	
S	4.5	.1	.3	.4	2.0	3.1	1.2	.1	.4	.2	4.5	
SW	2.6	.0	.1	.4	.9	1.9	1.2	.2	.1	.3	4.9	
W	.9	.0	.1	.5	.7	1.4	.5	.1	.0	.1	3.4	
NW	.7	.1	.2	.3	.8	1.4	.5	.1	.1	.1	2.3	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	5.0	.0	.2	.5	.8	2.2	1.7	.2	.2	.1	4.0	
TOT PCT	691	15	56	120	353	581	251	38	44	43	899	3091
	22.4	.5	1.8	3.9	11.4	18.8	8.1	1.2	1.4	1.4	29.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>8500	1.7	2.5	2.7	2.7	2.8	2.8	2.8	2.8
>8000	2.5	3.6	3.9	3.9	4.0	4.0	4.0	4.0
>3500	7.4	10.6	11.6	11.7	11.8	12.0	12.0	12.0
>2000	16.5	20.1	29.7	30.0	30.3	30.7	30.9	30.9
>1000	20.9	34.7	40.3	40.9	41.4	41.8	42.1	42.1
>800	21.8	37.4	43.8	44.5	45.1	45.6	45.9	45.9
>500	22.1	38.5	45.4	46.2	46.9	47.5	47.8	47.8
>150	22.3	39.0	45.8	46.7	47.3	48.0	48.3	48.3
>0	23.2	41.4	50.1	52.2	54.2	58.0	68.3	70.6
TOTAL	733	1311	1586	1653	1714	1835	2163	2235

TOTAL NUMBER OF OBS: 3165

PCT FREQ NH <5/8: 29.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.2	4.0	6.6	5.0	3.6	4.3	6.0	8.4	31.2	20.6	3379

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1871-1974

AUGUST

AREA 0025 SOVA STRAIT E
45.9N 145.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.2	.2	.2	.2	.0	.0	.0	.1	.9	
	NO PCP	.6	1.3	2.0	2.2	3.2	2.3	.6	.4	.0	2.8	15.6	
	TOT %	.6	1.4	2.2	2.4	3.4	2.5	.6	.4	.0	2.9	16.5	
1/2<1	PCP	.0	.1	.1	.0	.1	.1	.0	.0	.0	.1	.5	
	NO PCP	.1	.2	.2	.2	.3	.3	.1	.1	.0	.3	1.7	
	TOT %	.1	.3	.2	.3	.4	.4	.1	.1	.0	.4	2.2	
1<2	PCP	.1	.3	.3	.2	.3	.0	.0	.0	.0	.1	1.3	
	NO PCP	.1	.3	.3	.1	.3	.2	.1	.0	.0	.2	1.6	
	TOT %	.2	.6	.5	.3	.5	.2	.1	.1	.0	.3	2.9	
2<5	PCP	.2	.5	.5	.5	.4	.2	.1	.1	.0	.2	2.7	
	NO PCP	.4	.8	.8	1.0	.9	.7	.5	.5	.0	.8	6.4	
	TOT %	.6	1.4	1.3	1.5	1.3	.9	.6	.6	.0	1.0	9.1	
5<10	PCP	.2	.4	.6	.4	.5	.2	.3	.0	.0	.1	2.9	
	NO PCP	2.0	2.5	2.1	2.7	3.8	3.0	1.7	1.2	.0	1.9	20.9	
	TOT %	2.2	2.9	2.7	3.1	4.3	3.3	2.0	1.2	.0	2.1	23.8	
10+	PCP	.1	.1	.1	.2	.1	.1	.1	.0	.0	.1	.6	
	NO PCP	3.9	4.4	4.3	4.9	7.0	6.7	4.3	3.7	.0	5.6	44.7	
	TOT %	3.9	4.4	4.4	5.1	7.1	6.8	4.4	3.7	.0	5.7	45.5	
TOT OBS													4776
TOT PCT		7.6	11.0	11.3	12.6	17.0	14.1	7.0	6.1	.0	12.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.3	.6	.3	.3	.4	.2	.1	.0	2.7	5.0	
	4-10	.4	1.0	1.5	1.5	2.3	1.7	.7	.2	.0		9.2	
	11-21	.2	.4	.4	.7	.9	.6	.1	.1	.0		3.3	
	22+	.1	.1	.0	.1	.1	.1	.0	.0	.0		.6	
	TOT %	.8	1.7	2.5	2.4	3.7	2.7	1.0	.5	.0	2.7	18.1	
1/2<1	0-3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.4	.8	
	4-10	.0	.1	.1	.2	.2	.1	.1	.1	.0		1.0	
	11-21	.0	.1	.1	.0	.1	.2	.0	.1	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.4	.2	.3	.4	.5	.1	.1	.0	.4	2.5	
1<2	0-3	.1	.0	.1	.0	.1	.0	.0	.0	.0	.3	.6	
	4-10	.2	.2	.2	.4	.5	.2	.1	.0	.0		1.7	
	11-21	.1	.4	.3	.1	.1	.1	.1	.0	.0		1.3	
	22+	.0	.1	.0	.0	.1	.0	.0	.0	.0		.3	
	TOT %	.4	.7	.6	.6	.7	.4	.2	.1	.0	.3	3.9	
2<5	0-3	.1	.0	.1	.2	.1	.2	.1	.1	.0	1.0	2.0	
	4-10	.4	.5	.6	.7	.7	.6	.4	.4	.0		4.3	
	11-21	.3	.8	.5	.4	.6	.5	.2	.1	.0		3.4	
	22+	.0	.2	.1	.2	.2	.1	.0	.1	.0		.8	
	TOT %	.8	1.5	1.3	1.4	1.6	1.4	.7	.7	.0	1.0	10.5	
5<10	0-3	.2	.3	.2	.1	.2	.2	.2	.2	.0	1.9	3.5	
	4-10	.9	1.1	1.4	1.5	1.7	1.6	.9	.5	.0		9.8	
	11-21	.8	1.3	.8	1.3	1.8	1.2	.7	.2	.0		8.2	
	22+	.1	.2	.2	.1	.3	.2	.2	.0	.0		1.3	
	TOT %	2.0	2.8	2.7	3.1	4.1	3.3	2.0	.9	.0	1.9	22.7	
10+	0-3	.4	.4	.4	.5	.8	.6	.4	.3	.0	5.5	9.3	
	4-10	2.0	2.6	2.2	3.1	3.2	3.9	2.5	1.7	.0		21.2	
	11-21	.9	1.0	1.3	1.1	2.3	1.7	1.0	1.2	.0		10.5	
	22+	.2	.0	.1	.2	.2	.1	.1	.1	.0		1.3	
	TOT %	3.5	4.0	4.0	4.9	6.5	6.5	4.0	3.4	.0	5.5	42.3	
TOT OBS													4556
TOT PCT		7.5	11.1	11.4	12.6	17.0	14.7	8.1	5.8	.0	11.9	100.0	

AUGUST

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1871-1974

AREA 0025 SOYA STRAIT E
45.9N 145.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	20.2	.8	2.1	3.9	14.6	20.2	8.2	2.0	1.7	1.6	75.2	24.8	1064
06009	15.5	.4	2.2	5.3	9.8	20.1	10.2	1.3	1.7	1.4	67.9	32.1	834
12015	26.7	.1	1.4	2.8	8.8	16.7	6.3	.6	.7	1.1	65.2	34.8	828
18021	27.6	.4	1.8	3.5	10.2	15.1	6.2	.5	1.3	1.3	67.9	32.1	548
TOT	716	15	62	127	366	604	238	40	43	45	2278	996	3274
PCT	21.9	.5	1.9	3.9	11.2	18.4	7.9	1.2	1.4	1.4	69.6	30.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	18.7	2.1	3.8	10.2	19.9	45.4	1560
06009	16.8	2.3	2.9	7.7	21.3	49.0	1271
12015	19.0	2.2	2.9	12.5	23.4	39.0	1396
18021	18.8	2.9	4.9	10.7	25.7	37.0	1030
TOT	963	122	201	541	1173	2257	5757
PCT	18.3	2.3	3.8	10.3	22.3	42.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NH >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	20.7	25.6	37.0	40.5	22.5	1045
06009	15.8	20.7	31.6	39.1	29.3	811
12015	27.8	31.5	43.3	26.6	30.1	785
18021	29.0	33.4	43.3	28.6	28.1	524
TOT	714	857	1210	1099	856	3165
PCT	22.6	27.1	38.2	34.7	27.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.3	.0	.0	.0	.0	1	.3
70/74	.6	.0	.0	.0	.0	.6	.0	.0	4	1.3
65/69	1.0	.6	.3	.0	.0	1.6	.6	2.6	21	6.8
60/64	.0	3.5	.0	.0	.3	2.9	5.8	14.1	83	26.7
55/59	.0	1.6	2.6	.0	.3	3.9	7.4	25.7	129	41.5
50/54	.0	.0	.0	1.3	.6	1.0	3.2	15.4	67	21.5
45/49	.0	.0	.0	.0	.0	.6	.3	1.0	6	1.9
TOTAL	5	18	9	3	4	33	54	183	311	100.0
PCT	1.6	5.8	2.9	1.6	1.3	10.6	17.4	58.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
70/74	.0	.0	.0	.0	.5	.6	.2	.0	.0	.0
65/69	.2	1.0	1.3	1.0	1.1	.8	.6	.0	.0	.6
60/64	1.8	2.9	3.4	3.3	5.5	1.8	2.7	1.8	.0	3.5
55/59	1.9	6.6	8.4	5.5	8.2	3.3	3.4	2.5	.0	1.6
50/54	2.3	5.5	6.4	1.5	1.4	1.4	.6	1.4	.0	1.0
45/49	.6	.0	.3	.0	.3	.0	.0	.7	.0	.0
TOTAL	6.8	16.0	19.9	11.4	17.0	8.0	7.6	6.4	.0	7.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	82	77	72	61	52	46	37	61.7	1545
06009	85	79	73	63	53	46	37	62.8	1266
12015	82	75	68	59	50	45	37	59.4	1382
18021	82	73	68	59	50	43	37	58.8	1035
TOT	85	76	72	61	52	46	37	60.8	5228

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	2.2	13.0	1.1	9.8	25.0	48.9	82	92		
06009	2.4	8.2	1.2	14.1	15.3	58.8	84	85		
12015	.0	11.8	1.3	6.6	18.4	61.8	86	76		
18021	1.5	7.6	1.5	12.1	10.6	66.7	87	66		
TOT	5	33	4	34	57	186	84	319		

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1871-1974

AUGUST

AREA 0025 SOYA STRAIT E
45.9N 145.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	43 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
>30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	10	.1	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	10	.0	.2
20/22	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2	.0	.0	.0	24	.2	.3
17/19	.0	.0	.0	.0	.0	.1	.1	.3	.4	.4	.2	.0	.0	67	.3	1.1
14/16	.0	.0	.0	.1	.0	.1	.3	.6	.5	.6	.2	.1	.0	116	.9	1.7
11/13	.0	.0	.0	.1	.2	.4	1.4	1.1	1.2	.4	.2	.0	.0	227	1.1	3.9
9/10	.0	.0	.0	.1	.2	1.1	1.5	1.2	.9	.2	.0	.0	.0	240	1.4	3.9
7/8	.0	.0	.0	.1	.6	1.4	2.3	1.3	.9	.2	.0	.0	.0	310	1.8	5.0
6	.0	.0	.0	.1	.6	.6	.7	.7	.4	.1	.0	.0	.0	131	.7	2.2
5	.0	.0	.0	.2	.7	1.6	2.4	1.5	.7	.1	.0	.0	.0	321	1.7	5.3
4	.0	.0	.1	.4	1.4	2.3	3.4	1.8	.5	.1	.0	.0	.0	452	2.6	7.4
3	.0	.0	.0	.1	.6	1.1	1.3	.4	.2	.0	.0	.0	.0	174	1.0	2.8
2	.0	.0	.1	.6	1.9	3.0	4.4	1.6	.5	.0	.0	.0	.0	551	2.9	9.3
1	.0	.0	.0	.2	1.0	1.3	1.9	.4	.1	.0	.0	.0	.0	226	1.2	3.8
0	.0	.1	.2	.6	2.2	3.0	4.2	1.0	.5	.1	.0	.0	.0	538	2.8	9.0
-1	.0	.0	.0	.3	.7	1.7	.9	.4	.0	.0	.0	.0	.0	177	.6	3.3
-2	.0	.0	.1	.6	1.7	2.1	1.8	.5	.1	.0	.0	.0	.0	318	1.6	5.4
-3	.0	.0	.1	.2	.9	1.1	.5	.1	.0	.0	.0	.0	.0	129	.3	2.6
-4	.0	.0	.1	.4	1.1	1.1	.7	.2	.0	.0	.0	.0	.0	164	.8	2.9
-5	.0	.0	.1	.4	.8	.6	.4	.0	.0	.0	.0	.0	.0	107	.5	1.8
-6	.0	.0	.1	.2	.5	.2	.1	.0	.0	.0	.0	.0	.0	48	.2	.8
-7/-8	.0	.1	.1	.4	.6	.4	.3	.0	.0	.0	.0	.0	.0	85	.4	1.5
-9/-10	.0	.0	.2	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	47	.1	.9
-11/-13	.0	.0	.1	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	34	.1	.7
-14/-16	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	15	.1	.2
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	.1
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	7	15	59	247	726	1069	1308	609	324	116	11	1	1	4530	1065	3465
PCT	.2	.3	1.3	3.5	16.0	23.6	28.9	13.4	7.2	2.6	.8	.2	.0	100.0	23.5	76.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	1.1	.0	.0	.0	.0	1.4	.3	1.3	.0	.0	.0	.0	1.7
1-2	.1	1.8	1.0	.0	.0	.0	3.0	.1	2.6	1.2	.0	.0	.0	4.0
3-4	.0	.6	.9	.1	.0	.0	1.6	.0	.8	1.9	.1	.0	.0	2.8
5-6	.0	.0	.3	.1	.0	.0	.5	.0	.2	.4	.1	.0	.0	.8
7	.0	.0	.3	.1	.0	.0	.4	.0	.1	.1	.0	.0	.0	.3
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.1	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.7	2.7	.5	.0	.0	7.2	.5	5.1	3.8	.4	.0	.0	9.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	1.8	.1	.0	.0	.0	2.2	.2	2.3	.1	.0	.0	.0	2.7
1-2	.1	2.7	1.4	.0	.0	.0	4.2	.1	3.2	1.7	.0	.0	.0	5.0
3-4	.0	.5	1.3	.2	.0	.0	2.0	.0	.7	1.8	.3	.0	.0	2.9
5-6	.0	.2	.6	.1	.1	.0	1.0	.0	.2	.7	.2	.0	.0	1.0
7	.0	.1	.3	.1	.0	.0	.5	.0	.1	.2	.2	.0	.0	.6
8-9	.0	.0	.1	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.4	3.9	.5	.2	.0	10.3	.3	6.5	4.8	.9	.0	.0	12.5

PERIOD: (OVER-ALL) 1963-1974

AUGUST

AREA 0025 SOYA STRAIT E
45.9N 145.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.2	.1	.0	.0	.0	2.7	.3	2.2	.2	.0	.0	.0	2.7
1-2	.1	3.9	2.9	.0	.0	.0	7.0	.3	3.6	2.3	.0	.0	.0	6.2
3-4	.0	.9	2.7	.5	.0	.0	4.2	.0	.8	1.6	.2	.0	.0	2.6
5-6	.0	.1	1.1	.3	.0	.0	1.6	.0	.1	.8	.2	.0	.0	1.1
7	.0	.2	.3	.2	.0	.0	.7	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.0	.2	.1	.0	.0	.4	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.4	7.6	1.2	.0	.0	16.8	.7	6.7	5.3	.6	.0	.0	13.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.2	.1	.0	.0	.0	1.5	.2	.9	.1	.0	.0	.0	1.2	
1-2	.2	1.7	1.0	.0	.0	.0	2.9	.2	1.5	.9	.0	.0	.0	2.5	
3-4	.0	.4	1.0	.1	.0	.0	1.6	.0	.5	.9	.1	.0	.0	1.5	
5-6	.0	.1	.4	.2	.0	.0	.5	.0	.1	.3	.1	.0	.0	.5	
7	.0	.0	.2	.2	.0	.0	.3	.0	.1	.2	.1	.0	.0	.3	
8-9	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	3.4	2.7	.5	.0	.0	7.0	.4	3.0	2.5	.3	.0	.0	6.1	83.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	19.0	13.0	.8	.0	.0	.0	32.8	
1-2	1.3	21.1	12.4	.0	.0	.0	34.7	
3-4	.1	5.2	12.2	1.7	.0	.0	19.2	
5-6	.0	1.0	4.7	1.2	.1	.0	7.1	
7	.0	.5	1.9	1.1	.0	.0	3.5	
8-9	.0	.2	.7	.6	.1	.0	1.5	
10-11	.0	.1	.4	.1	.0	.0	.6	
12	.0	.1	.1	.1	.0	.0	.2	
13-16	.0	.1	.2	.1	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.5	41.2	33.3	4.8	.2	.0	100.0	2663

PERIOD: (OVER-ALL) 1963-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	20.0	15.1	3.6	1.8	.8	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1498	3
6-7	.0	2.4	4.9	3.7	2.2	.9	.5	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	499	5
8-9	.1	.8	1.2	1.1	1.1	.5	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	172	5
10-11	.0	2.0	.6	.5	.3	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	125	4
12-13	.0	.0	1.1	.4	.3	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	6
>13	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	9
INDET	16.1	5.1	3.5	1.6	.6	.2	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	916	2
TOTAL	585	998	870	435	208	88	48	22	24	16	4	2	2	0	0	0	0	0	0	3302	3
PCT	17.7	30.2	26.3	13.2	6.3	2.7	1.5	.7	.7	.5	.1	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1859-1974AREA 0025 SOYA STRAIT E
46.0N 143.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	10.9	.0	2.9	.0	.0	.0	.0	13.4	2.4	.0	5.3	.7	.4	.4	77.3
NE	15.3	.5	4.9	.0	.0	.0	.0	20.8	3.2	.0	8.5	.1	.3	.0	67.2
E	14.6	.6	3.8	.0	.0	.0	.0	18.9	3.3	.4	6.4	.4	.8	.0	70.0
SE	6.9	.0	3.1	.0	.0	.0	*	10.0	2.1	.2	6.4	.2	.6	.0	80.5
S	6.0	.0	1.5	.0	.0	.0	.1	7.6	1.4	.3	5.6	.2	.1	.0	84.9
SW	3.8	.6	1.7	.0	.0	.0	.0	6.1	.7	.2	4.8	.0	.4	.0	87.7
W	1.5	.8	.3	.0	.0	.0	.0	2.7	.5	.3	2.9	.2	.5	.3	92.7
NW	4.4	1.1	.8	.0	.0	.0	.0	6.4	.8	.0	2.7	.1	.5	.0	89.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.6	.0	.9	.0	.0	.0	.0	8.4	.4	.0	12.0	.0	.4	.0	78.7
TOT PCT	7.9	.4	2.3	.0	.0	.0	*	10.6	1.7	.2	5.9	.2	.5	.1	80.9
TOT OBS:	3514														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	6.4	.5	2.2	.0	.0	.0	.0	9.1	1.7	.2	5.9	.1	.3	.1	82.7
06009	7.7	.1	2.9	.0	.0	.0	.1	10.7	1.7	.1	5.9	.3	.4	.1	80.8
12015	8.9	.4	2.1	.0	.0	.0	.0	11.4	1.8	.6	5.6	.3	.4	.0	80.0
18021	9.3	.6	2.1	.0	.0	.0	.0	12.0	2.0	.1	6.7	.1	.8	.0	78.2
TOT PCT TOT OBS:	7.9 3659	.4	2.4	.0	.0	.0	*	10.7	1.8	.2	6.0	.2	.5	.1	80.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	2.7	2.6	.5	.1	.0		6.6	11.6		6.8	6.0	7.0	4.6	5.7	8.0	7.3	8.4
NE	.8	4.7	3.6	1.2	.1	.0		10.3	12.1		9.3	12.0	11.3	12.8	9.2	10.4	10.5	8.0
E	.7	5.9	5.6	1.3	.1	.0		13.4	12.2		12.4	16.1	14.4	11.3	13.5	10.4	13.8	14.5
SE	1.1	6.4	7.9	1.8	.1	.0		16.8	12.7		19.0	16.4	16.3	14.9	19.3	15.7	12.4	16.6
S	1.1	6.9	5.7	.8	.1	.0		14.6	11.2		14.7	12.9	14.9	16.6	16.1	15.5	11.8	13.7
SW	1.0	7.0	5.0	1.0	.1	.0		14.1	11.1		13.8	13.2	11.4	17.6	13.9	18.4	15.0	15.2
W	.7	5.5	3.8	1.0	.3	.0		11.1	12.1		8.6	16.0	10.9	13.5	9.8	10.5	11.8	12.2
NW	.3	3.3	2.3	.7	.1	.0		6.8	12.0		7.9	6.4	6.5	5.1	5.5	8.8	7.1	8.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.2							6.2	.0		7.7	.9	7.4	3.6	7.1	2.4	10.2	3.6
TOT OBS	408	1370	1163	264	30	0	3235		11.2		625	317	619	250	592	207	403	222
TOT PCT	12.6	42.3	36.0	8.2	.9	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	2.3	2.9	1.1	.3	.1		6.6	11.6	6.5	6.3	6.3	7.7	
NE	2.7	4.8	2.4	.4	.0		10.3	12.1	10.2	11.7	9.5	9.6	
E	3.8	6.0	3.3	.3	.0		13.4	12.2	13.6	13.5	12.7	14.0	
SE	4.0	8.2	3.9	.6	*		16.8	12.7	18.1	15.9	18.4	13.9	
S	4.1	7.6	2.7	.2	.1		14.6	11.2	14.1	15.4	15.9	12.5	
SW	4.1	7.1	2.2	.5	.0		14.1	11.1	13.6	13.2	15.0	15.0	
W	2.8	5.9	1.9	.4	.2		11.1	12.1	11.1	11.6	10.0	12.0	
NW	1.9	3.5	1.2	.3	*		6.8	12.0	7.4	6.1	6.4	7.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	6.2						6.2	.0	5.4	6.3	5.9	7.8	
TOT OBS	1030	1490	606	100	9	3235		11.2	94.2	86.9	79.9	62.5	
TOT PCT	31.8	46.1	18.7	3.1	.3		100.0		100.0	100.0	100.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1859-1974

AREA 0025 SOVA STRAIT E
46.0N 145.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			%%	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	5.4	6.6	39.4	39.3	8.1	1.3	.0	11.6	100.0	942
06009	6.3	6.0	41.3	37.1	8.5	.8	.0	11.3	100.0	869
12015	5.9	5.3	45.3	34.7	8.3	.6	.0	11.1	100.0	799
18021	7.8	8.0	44.5	31.0	7.7	1.0	.0	10.4	100.0	625
TOT	202	206	1370	1163	264	30	0	11.2		3235
PCT	6.2	6.4	42.3	36.0	8.2	.9	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	.8	1.7	3.2		5.8
NE	1.0	.5	1.9	7.2		6.8
E	1.6	.9	2.7	9.5		6.6
SE	2.8	1.3	5.0	6.0		5.7
S	4.9	1.8	3.7	4.4		4.5
SW	5.4	2.2	3.4	1.6		3.5
W	4.7	1.7	2.2	.8		3.0
NW	3.0	1.5	2.0	1.6		4.0
VAR	.0	.0	.0	.0		.0
CALM	3.0	.9	1.5	2.8		4.4
TOT OBS	583	246	512	786	2127	5.0
TOT PCT	27.4	11.6	24.1	37.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) > 4/8
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.4	.1	.2	.5	1.3	1.4	.3	.2	*	.0	2.3	
NE	1.7	.0	.6	.7	2.4	2.3	.6	.2	.0	.1	2.0	
E	1.6	.0	.4	.9	2.8	4.2	1.0	.1	.1	.1	3.5	
SE	1.1	*	.3	.4	1.8	3.4	1.7	.3	.1	.6	5.2	
S	.6	*	.2	.4	1.0	3.0	1.0	.2	.3	.3	7.9	
SW	.5	.0	.0	.2	.9	1.3	.6	.3	.3	.1	8.5	
W	.1	*	*	.3	.7	.8	.5	.1	*	.2	6.7	
NW	.2	*	*	.2	.5	1.6	.2	*	.1	.1	4.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.0	.0	*	.2	.4	1.6	.6	.1	.0	.1	4.0	
TOT OBS	155	5	39	80	249	418	140	30	20	33	956	2127
TOT PCT	7.3	.2	1.8	3.8	11.7	19.7	6.6	1.4	.9	1.6	44.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NM)							
	> 10	> 5	> 2	> 1	> 1/2	> 1/4	> 50YD	> 0
> 6500	2.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7
> 5000	3.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
> 3500	7.4	10.2	10.6	10.6	10.6	10.6	10.7	10.7
> 2000	17.8	27.6	29.8	30.0	30.0	30.0	30.1	30.1
> 1000	23.2	36.6	40.5	41.3	41.5	41.7	41.7	41.8
> 600	24.6	39.5	44.1	45.0	45.3	45.5	45.5	45.5
> 300	25.0	40.6	45.8	46.8	47.1	47.3	47.3	47.4
> 150	25.1	40.7	46.0	47.0	47.3	47.5	47.5	47.6
> 0	25.5	42.5	49.5	51.4	52.5	53.2	54.7	55.0
TOTAL	561	935	1089	1130	1155	1170	1204	1211

TOTAL NUMBER OF OBS: 2200

PCT FREQ NH < 5/8: 45.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
18.8	5.7	10.2	5.6	4.3	6.0	7.0	7.8	28.1	6.6	2365

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1859-1974AREA 0025 SOVA STRAIT E
46.0N 149.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.2	.1	.2	.1	.1	.1	.1	.0	.0	.1	.9		
	NN PCP	.2	.5	.4	.5	.3	.2	.2	.0	.0	.3	2.6		
	TOT %	.3	.6	.6	.6	.4	.4	.2	.0	.0	.4	3.5		
1/2<1	PCP	.0	.2	.1	.1	.1	.1	.0	.0	.0	.1	.7		
	NN PCP	.0	.2	.1	.1	.1	.1	.1	.0	.0	.1	.8		
	TOT %	.1	.3	.2	.2	.2	.2	.1	.0	.0	.2	1.5		
1<2	PCP	.1	.3	.4	.3	.1	.1	.0	.1	.0	.1	1.3		
	NN PCP	.0	.1	.1	.1	.1	.1	.0	.1	.0	.0	.7		
	TOT %	.2	.4	.6	.4	.2	.1	.1	.1	.0	.1	2.2		
2<5	PCP	.3	.9	.8	.5	.4	.1	.0	.1	.0	.2	3.3		
	NN PCP	.5	.5	.7	.8	.6	.5	.2	.2	.0	.3	4.4		
	TOT %	.7	1.3	1.5	1.3	1.0	.6	.2	.4	.0	.5	7.6		
5<10	PCP	.7	.6	.9	.7	.5	.2	.0	.2	.0	.1	3.3		
	NN PCP	1.6	2.0	3.2	3.5	3.1	2.3	2.3	1.6	.0	.6	20.3		
	TOT %	1.8	2.6	4.1	4.2	3.6	2.5	2.3	1.8	.0	.7	23.6		
10+	PCP	.1	.1	.3	.1	.0	.2	.1	.1	.0	.1	1.1		
	NN PCP	3.9	4.9	6.8	9.0	9.7	9.4	7.6	5.2	.0	4.4	60.5		
	TOT %	3.6	5.0	7.1	9.1	9.7	9.6	7.7	5.3	.0	4.4	61.5		
TOT OBS														3506
TOT PCT		6.7	10.4	14.1	15.7	15.1	13.5	10.7	7.6	.0	6.3	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SFD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.2	.1	.0	.1	.1	.0	.0	.0	.5	1.0	
	4-10	.4	.5	.6	.5	.4	.5	.6	.0	.0	.0	3.3	
	11-21	.3	.2	.1	.2	.2	.6	.1	.0	.0	.0	1.8	
	22+	.0	.1	.0	.1	.1	.0	.1	.0	.0	.0	.5	
	TOT %	.8	1.0	.8	.8	.7	1.2	.8	.1	.0	.5	6.6	
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	.4	
	4-10	.0	.2	.1	.2	.0	.2	.1	.0	.0	.0	.8	
	11-21	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.3	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.4	.2	.3	.2	.3	.1	.0	.0	.2	1.8	
1<2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.3	.2	.2	.1	.1	.0	.1	.0	.0	.9	
	11-21	.1	.2	.3	.2	.2	.1	.1	.0	.0	.0	1.2	
	22+	.1	.0	.1	.2	.0	.0	.1	.0	.0	.0	.7	
	TOT %	.4	.5	.7	.6	.3	.2	.1	.2	.0	.1	3.0	
2<5	0-3	.0	.0	.1	.1	.1	.1	.1	.0	.0	.5	1.1	
	4-10	.3	.5	.6	.6	.4	.6	.2	.2	.0	.0	3.5	
	11-21	.4	.8	.7	.8	.4	.3	.1	.1	.0	.0	3.6	
	22+	.0	.3	.3	.4	.0	.1	.0	.0	.0	.0	1.2	
	TOT %	.8	1.6	1.7	1.9	1.0	1.0	.4	.4	.0	.5	9.4	
5<10	0-3	.1	.1	.1	.1	.3	.1	.1	.0	.0	.7	1.5	
	4-10	.6	.9	1.3	1.4	1.7	1.2	1.1	.9	.0	.0	9.1	
	11-21	.6	.9	1.6	2.0	1.3	.8	.8	.4	.0	.0	8.5	
	22+	.2	.3	.4	.5	.2	.4	.3	.1	.0	.0	2.5	
	TOT %	1.4	2.3	3.4	4.1	3.5	2.4	2.3	1.4	.0	.7	21.6	
10+	0-3	.6	.5	.4	.7	.5	.7	.5	.3	.0	4.4	8.6	
	4-10	1.3	2.3	3.0	3.5	4.3	4.6	3.7	2.1	.0	.0	24.8	
	11-21	1.1	1.4	2.6	4.1	3.7	3.2	2.6	1.7	.0	.0	20.4	
	22+	.2	.3	.4	.7	.6	.5	.7	.6	.0	.0	3.9	
	TOT %	3.2	4.5	6.4	9.1	9.0	8.9	7.5	4.7	.0	4.4	57.7	
TOT OBS													3170
TOT PCT		6.6	10.3	13.2	16.8	14.7	14.0	11.3	6.8	.0	6.3	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1859-1974

AREA 0025 SOVA STRAIT E
46.0N 145.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	9.1	.3	2.4	3.5	12.9	21.7	7.5	1.3	1.3	1.7	57.6	42.4	706
06009	4.7	.4	1.5	4.5	11.4	22.6	7.6	2.1	1.0	1.9	57.7	42.3	674
12015	8.2	.0	1.9	3.2	9.5	15.3	5.4	1.1	.9	1.1	46.6	53.4	536
18021	14.6	.0	1.1	3.5	11.3	13.7	3.2	.8	.9	1.6	50.4	49.6	371
TOT	166	5	41	85	261	438	145	32	23	37	1233	1034	2287
PCT	7.3	.2	1.8	3.7	11.4	19.2	6.3	1.4	1.0	1.6	53.9	46.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	5.3	1.2	2.3	7.6	18.2	65.4	1129
06009	5.0	1.8	2.6	8.6	20.6	61.3	1029
12015	6.4	1.7	3.2	11.2	26.2	51.4	956
18021	7.0	2.3	3.9	9.7	27.5	49.7	745
TOT	224	65	113	354	873	2230	3859
PCT	5.8	1.7	2.9	9.2	22.6	57.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	5.3	8.3	16.2	43.3	40.3	684
06009	4.7	7.2	17.7	42.0	40.2	654
12015	8.6	11.5	21.5	27.6	50.9	511
18021	15.4	17.1	27.1	26.8	46.2	351
TOT	165	223	432	806	962	2200
PCT	7.5	10.1	19.6	36.6	43.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.4	.0	.0	.0	1	.4
70/74	.0	.0	.0	.0	.4	1.1	.0	.4	5	1.9
65/69	.0	.8	.0	.0	.4	.8	1.9	1.1	13	4.9
60/64	.0	1.5	.4	.0	.4	4.5	9.0	9.0	66	24.8
55/59	.0	.8	1.9	.8	.4	8.3	10.2	9.8	85	32.0
50/54	.0	.0	.4	.0	1.3	4.9	11.7	11.3	79	29.7
45/49	.0	.0	.0	.0	1.1	.8	1.1	2.6	15	5.6
40/44	.0	.0	.0	.0	.0	.0	.4	.0	1	.4
30/34	.0	.0	.0	.0	.0	.0	.0	.4	1	.4
TOTAL	0	8	7	2	12	54	91	92	266	100.0
PCT	.0	3.0	2.6	.8	4.5	20.3	34.2	34.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.3	.0	.0	.0	.0	.0	.0	.0
.0	.4	.0	.0	.0	.4	1.0	.1	.0	.0
.0	.8	.0	.8	.7	1.6	.4	.4	.0	.4
1.7	1.3	1.7	3.2	1.7	7.1	4.5	2.8	.0	.8
.8	.7	3.5	8.3	6.6	6.2	2.8	1.7	.0	1.5
1.7	3.2	4.3	2.7	3.3	4.5	2.9	4.8	.0	2.3
.6	.2	.9	.9	.3	.1	.8	1.5	.0	.4
.0	.0	.0	.0	.0	.0	.0	.4	.0	.0
.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
4.7	6.6	11.1	15.9	12.5	19.9	12.4	11.7	.0	5.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	73	69	59	50	46	34	59.4	1122
06009	80	74	69	59	50	45	34	59.5	1018
12015	81	70	64	57	48	43	34	56.9	959
18021	80	70	64	55	46	41	34	56.0	758
TOT	81	73	68	58	49	44	34	58.1	3857

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.6	9.0	23.6	32.6	29.2	80	89		
06009	.0	4.2	1.4	26.8	43.7	23.9	82	71		
12015	.0	13.0	3.7	16.7	24.1	42.6	80	54		
18021	.0	7.1	1.8	10.7	32.1	48.2	85	56		
TOT	0	19	12	55	91	93	81	270		

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1859-1974

AREA 0025 SOYA STRAIT E
46.0N 145.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WQ FOG
>30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	6	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	20	.0	.6
14/16	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2	.1	.1	.0	25	.1	.6
11/13	.0	.0	.0	.0	.1	.2	.2	.7	.4	.3	.2	.0	.0	68	.0	2.0
9/10	.0	.0	.0	.0	.0	.1	.3	.8	.5	.3	.1	.0	.0	73	.1	2.0
7/8	.0	.0	.0	.0	.1	.3	.9	1.4	.8	.3	.1	.0	.0	134	.2	3.7
6	.0	.0	.0	.0	.1	.3	.4	.3	.4	.0	.1	.0	.0	51	.2	1.3
5	.0	.0	.0	.0	.2	.7	1.5	1.8	.8	.4	.0	.0	.0	189	.4	5.1
4	.0	.0	.0	.1	.3	.9	2.0	3.0	1.1	.3	.0	.0	.0	266	.7	7.0
3	.0	.0	.0	.1	.1	.9	1.5	1.0	.3	.0	.0	.0	.0	130	.3	3.5
2	.0	.0	.1	.2	1.0	1.9	3.5	4.0	.8	.1	.0	.0	.0	398	.8	10.8
1	.0	.0	.0	.1	.4	1.3	1.9	1.5	.2	.0	.0	.0	.0	189	.4	5.1
0	.0	.0	.0	.4	1.4	3.6	4.2	5.2	.5	.1	.1	.0	.0	533	.8	14.7
-1	.0	.0	.0	.1	.4	1.6	1.3	.8	.2	.0	.0	.0	.0	150	.2	4.2
-2	.0	.0	.0	.2	1.4	4.0	3.6	2.2	.3	.0	.0	.0	.0	397	.5	11.1
-3	.0	.0	.0	.2	.5	1.3	.8	.3	.1	.0	.0	.0	.0	112	.2	3.0
-4	.0	.0	.1	.5	1.3	2.4	1.6	1.0	.1	.0	.0	.0	.0	242	.5	6.5
-5	.0	.0	.0	.5	.7	1.5	1.2	.3	.1	.0	.0	.0	.0	150	.1	4.3
-6	.0	.0	.0	.1	.4	.5	.4	.1	.0	.0	.0	.0	.0	53	.1	1.5
-7/-8	.0	.0	.0	.4	1.0	1.0	.6	.2	.0	.0	.0	.0	.0	111	.1	3.1
-9/-10	.0	.0	.0	.4	.6	.5	.2	.1	.0	.0	.0	.0	.0	67	.1	1.9
-11/-13	.0	.0	.1	.1	.3	.2	.1	.0	.1	.0	.0	.0	.0	33	.1	.9
-14/-16	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	15	.0	.4
-17/-19	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	9	.0	.3
-20/-22	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.1
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	3	9	19	121	353	803	894	873	232	82	34	9	1	3433	200	3233
PCT	.1	.3	.6	3.5	10.3	23.4	26.0	25.4	6.8	2.4	1.0	.3	.0	100.0	5.8	94.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.1	.0	.0	.0	1.4	.2	.9	.1	.0	.0	.0	1.1
1-2	.2	.8	1.1	.0	.0	.0	2.1	.0	1.5	1.1	.0	.0	.0	2.6
3-4	.0	.6	.8	.1	.0	.0	1.5	.0	.6	1.7	.3	.0	.0	2.6
5-6	.0	.0	.4	.1	.0	.0	.5	.0	.4	1.1	.4	.0	.0	1.9
7	.0	.1	.3	.0	.0	.0	.4	.0	.1	.2	.4	.0	.0	.7
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.0	.3	.3	.1	.0	.6
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.1	.1	.1	.1	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.1	.1	.0	.0	.1
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.1	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.6	2.8	.6	.1	.0	6.6	.2	3.6	4.6	1.6	.1	.0	10.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.2	.0	.0	.0	1.5	.4	1.5	.3	.0	.0	.0	2.3
1-2	.1	2.3	1.9	.0	.0	.0	4.3	.2	2.6	3.4	.0	.0	.0	6.2
3-4	.0	.6	2.5	.6	.0	.0	3.7	.0	.5	3.8	.8	.0	.0	5.2
5-6	.0	.3	1.2	.4	.0	.0	1.9	.0	.2	1.8	.7	.0	.0	2.7
7	.0	.0	1.0	.5	.0	.0	1.5	.0	.1	.9	.4	.0	.0	1.4
8-9	.0	.0	.4	.3	.0	.0	.7	.0	.0	.1	.1	.0	.0	.1
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.1	.1	.1	.1	.0	.3
12	.0	.1	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.1	.1	.2	.0	.0	.3	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.4	7.3	2.2	.0	.0	14.2	.6	5.1	10.3	2.1	.1	.0	18.3

PERIOD: (OVER-ALL) 1963-1974

SEPTEMBER

AREA 0025 SOYA STRAIT E
46.0N 145.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.1	.0	.0	.0	1.6	.4	1.9	.1	.0	.0	.0	2.4
1-2	.1	2.7	1.8	.0	.0	.0	4.6	.*	2.4	1.5	.0	.0	.0	3.9
3-4	.1	.7	2.9	.3	.0	.0	3.9	.0	.6	1.6	.2	.0	.0	2.3
5-6	.1	.3	1.7	.3	.0	.0	2.3	.0	.3	.5	.4	.0	.0	1.1
7	.0	.1	.4	.4	.0	.0	1.0	.0	.1	.6	.3	.0	.0	.9
8-9	.0	.*	.2	.0	.2	.0	.4	.0	.*	.1	.1	.1	.0	.3
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.*	.0	.0	.0	.*	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.1	.*	.0	.2	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.*	.0	.0	.0	.*	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.1	7.5	1.1	.2	.0	14.3	.4	5.2	4.8	.9	.1	.0	11.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.9	.2	.0	.0	.0	1.3	.1	1.0	.*	.0	.0	.0	1.2	
1-2	.1	1.3	1.2	.0	.0	.0	2.6	.1	.8	.9	.0	.0	.0	1.9	
3-4	.0	.6	1.5	.3	.0	.0	2.3	.0	.5	.7	.2	.0	.0	1.4	
5-6	.0	.1	.6	.2	.0	.0	1.0	.0	.1	1.0	.3	.0	.0	1.4	
7	.0	.*	.3	.1	.1	.0	.6	.0	.*	.2	.4	.0	.0	.6	
8-9	.0	.0	.*	.2	.1	.0	.3	.0	.0	.1	.2	.0	.0	.3	
10-11	.0	.0	.1	.1	.1	.0	.3	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.1	.1	.1	.0	.3	.0	.0	.0	.0	.*	.0	.*	
17-19	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.1	.0	.1	
20-22	.0	.0	.0	.*	.0	.0	.*	.0	.0	.0	.*	.0	.0	.*	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.0	4.2	.9	.4	.0	8.8	.2	2.5	3.0	1.1	.1	.0	7.0	90.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.0	9.6	1.1	.0	.0	.0	21.7	
1-2	.9	14.6	12.9	.0	.0	.0	28.4	
3-4	.1	4.7	15.5	2.8	.0	.0	23.1	
5-6	.1	1.8	8.4	2.6	.0	.0	12.8	
7	.0	.5	3.9	2.5	.1	.0	7.0	
8-9	.1	.1	1.3	1.2	.5	.0	3.1	
10-11	.0	.1	.8	.6	.2	.0	1.7	
12	.0	.1	.1	.2	.0	.0	.4	
13-16	.0	.1	.4	.5	.3	.0	1.3	
17-19	.0	.1	.1	.2	.1	.0	.4	
20-22	.0	.0	.1	.1	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.1	31.6	44.5	10.6	2.1	.0	100.0	1700

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.1	13.6	13.7	6.9	3.5	.6	.4	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	936	4
6-7	0	1.3	4.7	5.0	3.5	1.5	.9	.3	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	412	5
8-9	0	.5	1.2	1.7	1.5	1.1	.6	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	168	6
10-11	0	1.8	.4	.3	.6	.3	.2	*	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	6
12-13	0	0	1.1	.4	.4	.2	.1	0	0	.1	*	0	0	0	0	0	0	0	0	0	56	6
>13	0	0	0	.4	.3	.2	*	.2	.1	.1	.1	0	0	0	0	0	0	0	0	0	34	9
INDET	8.7	4.2	5.8	3.9	2.4	.8	.6	0	.4	*	.1	0	0	0	0	0	0	0	0	0	629	3
TOTAL	230	499	630	435	286	108	68	18	35	18	5	0	0	0	0	0	0	0	0	0	2332	4
PCT	9.9	21.4	27.0	18.7	12.3	4.6	2.9	.8	1.5	.8	.2	0	0	0	0	0	0	0	0	0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1859-1974AREA 0025 SOYA STRAIT E
46.0N 145.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	8.9	.6	2.0	.0	.0	.0	.0	11.5	3.7	.0	1.3	.0	.3	.0	83.2
NE	14.2	2.4	1.5	.0	.0	.0	.5	18.5	6.6	.0	3.4	.0	.5	.5	70.5
E	15.3	.5	5.5	.0	.0	.0	.0	20.7	2.5	.0	3.2	.0	.6	.6	72.4
SE	14.7	.1	2.4	.0	.0	.0	.0	16.8	3.8	.0	3.6	.0	.4	1.2	74.3
S	7.1	.5	1.5	.0	.0	.0	.2	9.3	2.6	.3	5.4	.0	1.1	.5	80.7
SW	3.5	.7	1.7	.0	.4	.0	.0	5.8	1.7	.3	3.8	.0	.2	.4	87.8
W	3.1	.8	.5	.0	.9	.0	.1	5.2	1.2	.1	1.8	.0	.3	.1	91.2
NW	4.6	.2	1.7	.0	.8	.0	.0	7.3	2.4	.0	1.1	.2	.3	.2	88.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	.0	1.7	.0	.0	.0	.0	3.3	.8	.0	12.5	.0	.8	.0	82.5
TOT PCT	6.7	.6	1.7	.0	.4	.0	.1	9.3	2.5	.1	3.2	*	.4	.4	84.0
TOT OBS:	3232														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CR'L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	6.7	.7	1.4	.0	.7	.0	.2	9.5	2.9	.0	2.9	.1	.4	.2	84.1
06009	7.5	.4	1.7	.0	.1	.0	.1	9.5	2.4	.1	3.1	.0	.4	.3	84.1
12015	7.9	.5	1.5	.0	.4	.0	.0	10.2	2.5	.2	2.8	.0	.6	.6	83.1
18021	4.8	.8	1.9	.0	.2	.0	.0	7.7	2.2	.2	4.1	.0	.5	.5	84.8
TOT PCT	6.8	.6	1.6	.0	.4	.0	.1	9.3	2.5	.1	3.2	*	.5	.4	84.0
TOT OBS:	3417														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.5	3.1	3.8	1.2	.3	.0		8.6	14.2	8.9	6.6	8.7	9.0	7.3	10.6	9.7	9.6
NE	.3	2.6	2.7	1.1	.2	.0		6.9	14.3	6.9	8.2	7.1	4.6	7.4	6.2	5.7	8.8
E	.3	2.0	1.7	.9	.1	.0		5.0	14.0	4.5	5.3	5.0	3.0	5.8	5.0	5.2	4.6
SE	.4	3.2	2.8	1.2	.3	.0		7.9	13.7	9.1	7.1	7.1	6.3	9.0	8.5	6.4	7.9
S	.8	5.1	5.3	1.9	.2	.0		13.4	13.5	16.0	11.8	12.0	14.4	13.1	13.1	12.1	13.3
SW	.8	6.7	8.5	1.7	.2	*		17.9	13.2	16.9	17.4	19.1	23.4	15.8	15.4	18.2	22.3
W	.5	7.2	10.3	2.8	.3	*		21.2	14.4	19.2	23.4	22.9	19.2	20.9	26.0	22.0	18.1
NW	.4	5.4	7.2	2.0	.4	*		15.4	14.5	13.2	19.1	16.4	18.6	15.3	13.8	15.8	12.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7							3.7	.0	5.4	1.6	1.7	1.6	5.3	1.5	4.8	3.1
TOT OBS	211	986	1179	356	55	3	2784			635	207	535	184	589	130	374	130
TOT PCT	7.6	35.4	42.1	12.8	2.0	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	1.6	4.1	2.3	.6	.1		8.6	14.2	8.4	8.8	7.9	9.7
NE	1.3	3.1	2.0	.4	.1		6.9	14.3	7.2	6.4	7.2	6.3
E	1.1	2.1	1.4	.3	*		5.0	14.0	4.7	4.5	5.6	5.1
SE	1.8	3.5	2.0	.6	.0		7.9	13.7	8.6	6.9	8.9	6.8
S	3.0	6.1	3.8	.6	*		13.4	13.5	15.0	12.6	13.1	12.4
SW	3.7	8.9	4.6	.6	.1		17.9	13.2	17.0	20.2	15.7	19.3
W	3.1	10.8	6.2	.8	.2		21.2	14.4	20.2	21.9	21.8	21.0
NW	2.5	7.4	4.7	.8	.2		15.4	14.5	14.6	16.9	15.2	14.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.7						3.7	.0	4.3	1.7	4.6	4.4
TOT OBS	606	1281	750	129	18	2784		13.4	842	719	719	504
TOT PCT	21.8	46.0	26.9	4.6	.6		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1859-1974

OCTOBER

AREA 0025 SOYA STRAIT E
46.0N 145.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.3	4.4	36.8	38.7	14.3	1.5	.0	13.2	100.0	842
06009	1.7	3.6	33.7	45.1	14.3	1.7	.0	14.1	100.0	719
12015	4.6	2.8	34.6	44.9	10.6	2.2	.3	13.5	100.0	719
18021	4.4	5.0	36.7	39.7	11.3	2.8	.2	12.8	100.0	504
TOT	103	108	986	1173	356	55	.3	13.4		2784
PCT	3.7	3.9	35.4	42.1	12.8	2.0	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	1.0	3.4	3.0		5.4
NE	.9	.7	1.5	3.0		5.9
E	1.0	.2	.9	2.7		5.8
SE	1.5	.9	1.9	4.0		5.8
S	4.6	1.5	3.2	4.4		4.6
SW	6.7	3.1	4.0	2.8		3.7
W	6.5	3.2	8.2	3.7		4.3
NW	3.3	2.7	5.6	3.5		4.9
VAR	.0	.0	.0	.0		.0
CALM	2.0	.5	1.3	.9		3.8
TOT OBS	619	302	659	615	2195	4.7
TOT PCT	28.2	13.8	30.0	28.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.4	*		.2	.6	1.5	2.1	.9	.1	.1	.0	3.2	
.5	.0		.2	.3	1.1	1.5	.5	.1	.1	.0	1.9	
.3	.0		.2	.3	1.1	.9	.3	.0	.1	*	1.5	
.4	.0		.2	.5	1.7	1.5	.6	.1	*	.1	3.1	
.8	.0		.1	.5	1.7	2.1	.7	.1	*	.3	7.4	
.5	.0		.1	.3	1.4	1.8	1.2	.3	.1	.1	10.7	
.7	*		.2	.6	3.0	3.9	1.5	.2	.1	.1	11.2	
.2	.1		.2	.4	2.2	3.6	1.4	.4	.1	.1	6.6	
.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	
.2	.0		.1	*	.4	.6	.3	*	*	.1	2.7	
90	3		30	79	308	397	160	29	18	20	1061	
4.1	.1	1.4	3.6	14.0	18.1	7.3	1.3	.8	.9	48.3	100.0	2195

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

VSBY (NM)									
CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0	
= OR >6500	1.3	1.7	1.8	1.8	1.9	1.9	1.9	1.9	
= OR >5000	2.3	3.0	3.1	3.1	3.2	3.2	3.2	3.2	
= OR >3500	7.2	10.0	10.5	10.6	10.7	10.7	10.7	10.7	
= OR >2000	18.3	26.4	28.4	28.8	28.8	28.8	28.9	28.9	
= OR >1000	26.0	38.6	42.2	42.9	43.1	43.1	43.1	43.1	
= OR >600	27.1	40.9	45.6	46.4	46.6	46.7	46.7	46.7	
= OR >300	27.3	41.9	46.9	47.9	48.0	48.1	48.2	48.2	
= OR >150	27.3	42.0	47.1	48.0	48.2	48.3	48.3	48.3	
= OR >0	27.8	43.5	49.5	51.1	51.6	52.0	52.4	52.4	
TOTAL	640	1002	1142	1179	1191	1198	1208	1208	

TOTAL NUMBER OF OBS: 2306

PCT FREQ NH <5/8: 47.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 DBSCD	TOTAL OBS
	18.2	9.6	9.7	7.3	6.3	7.3	9.9	9.4	22.6	2466

OCTOBER

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1859-1974AREA 0025 SOYA STRAIT E
46.0N 145.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.4	
	NO PCP	.1	.0	.1	.1	.3	.2	.2	.0	.0	.2	1.2	
	TOT %	.1	.1	.1	.1	.3	.3	.3	.1	.0	.2	1.6	
1/2<1	PCP	.0	.0	.1	.1	.1	.0	.0	.1	.0	.0	.4	
	NO PCP	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.5	
	TOT %	.0	.1	.1	.2	.2	.1	.0	.1	.0	.0	.9	
1<2	PCP	.2	.2	.1	.1	.1	.0	.1	.2	.0	.0	1.0	
	NO PCP	.1	.1	.0	.1	.3	.1	.1	.1	.0	.0	.9	
	TOT %	.3	.3	.2	.2	.4	.1	.2	.2	.0	.0	1.8	
2<5	PCP	.2	.4	.4	.5	.5	.2	.3	.1	.0	.0	2.6	
	NO PCP	.5	.5	.3	.7	.7	.4	.7	.6	.0	.2	4.7	
	TOT %	.7	1.0	.7	1.2	1.2	.6	1.0	.7	.0	.2	7.3	
5<10	PCP	.4	.4	.3	.6	.5	.6	.4	.6	.0	.1	4.0	
	NO PCP	2.3	1.3	1.0	1.7	3.0	3.8	3.3	3.3	.0	.8	20.6	
	TOT %	2.8	1.7	1.3	2.4	3.5	4.4	3.7	3.9	.0	.9	24.6	
10+	PCP	.1	.1	.1	.1	.1	.1	.2	.2	.0	.0	1.0	
	NO PCP	4.8	3.3	2.4	4.3	8.0	11.6	15.5	10.5	.0	2.4	62.9	
	TOT %	4.9	3.4	2.5	4.4	8.1	11.8	15.7	10.7	.0	2.4	63.9	
TOT OBS													3231
TOT PCT		8.8	6.6	4.9	8.5	13.7	17.2	21.0	15.7	.0	3.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	
	4-10	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.5	
	11-21	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	.4	
	22+	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.2	.1	.1	.2	.3	.2	.1	.0	.1	1.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	11-21	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.4	
	22+	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.3	
	TOT %	.1	.0	.2	.1	.2	.2	.1	.1	.0	.0	.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.1	.1	.2	.1	.0	.1	.0	.0	.8	
	11-21	.1	.2	.1	.0	.1	.0	.2	.2	.0	.0	.9	
	22+	.1	.0	.0	.0	.1	.0	.1	.1	.0	.0	.4	
	TOT %	.3	.3	.2	.1	.4	.2	.3	.4	.0	.0	2.3	
2<5	0-3	.0	.0	.0	.0	.0	.1	.0	.1	.0	.1	.3	
	4-10	.3	.3	.2	.4	.4	.2	.4	.2	.0	.0	2.3	
	11-21	.3	.6	.3	.4	.4	.5	.6	.4	.0	.0	3.5	
	22+	.2	.3	.3	.6	.3	.1	.2	.2	.0	.0	2.1	
	TOT %	.7	1.1	.7	1.3	1.2	.8	1.2	.9	.0	.1	8.2	
5<10	0-3	.2	.0	.0	.1	.2	.3	.1	.0	.0	.9	1.8	
	4-10	.6	.7	.5	1.0	1.3	1.7	.9	1.2	.0	.0	8.0	
	11-21	1.3	.5	.5	.8	1.5	1.9	1.8	1.9	.0	.0	10.1	
	22+	.8	.5	.4	.4	.6	.6	.9	.8	.0	.0	5.0	
	TOT %	2.9	1.7	1.4	2.3	3.6	4.5	3.7	3.8	.0	.9	24.9	
10+	0-3	.2	.3	.2	.3	.5	.4	.4	.3	.0	2.6	5.1	
	4-10	2.1	1.5	1.1	1.7	3.2	4.3	5.7	3.9	.0	.0	23.5	
	11-21	1.9	1.4	.8	1.5	3.1	6.0	7.5	4.7	.0	.0	26.9	
	22+	.4	.3	.3	.4	1.0	1.1	2.0	1.4	.0	.0	6.9	
	TOT %	4.6	3.5	2.4	3.9	7.8	11.8	15.6	10.3	.0	2.6	62.4	
TOT OBS													2742
TOT PCT		8.6	6.9	5.0	7.9	13.5	17.8	21.1	15.5	.0	3.7	100.0	

OCTOBER

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1859-1974

AREA 0025 SOVA STRAIT E
46.0N 145.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	2.3	.3	1.4	3.8	15.6	20.9	8.1	1.6	.9	1.3	56.2	43.8	788
06009	2.7	.0	2.1	3.5	16.9	19.2	8.6	1.1	.3	.8	55.1	44.9	663
12015	7.6	.2	1.1	3.2	9.6	14.6	6.5	1.4	1.3	.5	46.0	54.0	554
18021	5.4	.0	.5	3.2	11.3	13.4	4.3	.8	1.3	1.1	41.3	58.7	373
TOT	98	3	33	83	330	423	173	31	21	22	1217	1161	2378
PCT	4.1	.1	1.4	3.5	13.9	17.8	7.3	1.3	.9	.9	51.2	48.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.2	.6	2.0	7.1	21.2	67.9	1056
06009	1.0	1.2	2.4	7.0	21.5	66.8	910
12015	1.4	1.6	4.2	9.8	28.0	54.9	874
18021	2.7	.9	1.7	8.3	29.1	57.2	636
TOT	51	37	91	278	850	2169	3476
PCT	1.5	1.1	2.6	8.0	24.5	62.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	2.3	4.8	14.7	43.8	41.3	771
06009	2.8	5.4	12.9	43.8	43.2	650
12015	7.4	9.1	19.6	30.0	50.4	530
18021	5.4	6.8	16.1	30.1	53.8	355
TOT	94	144	358	889	1059	2306
PCT	4.1	6.2	15.5	38.6	45.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.4	.0	.0	.0	1	.4
65/69	.0	.4	.4	.0	.0	.0	.9	.0	4	1.8
60/64	.0	.4	.0	.4	.4	.4	.4	.4	6	2.6
55/59	.0	.0	1.3	1.3	2.2	2.6	4.0	2.6	32	14.1
50/54	.0	.0	1.3	3.5	6.2	11.0	8.4	6.6	84	37.0
45/49	.0	.0	.0	1.8	8.6	9.7	5.7	4.4	64	28.2
40/44	.0	.0	.0	2.2	2.6	4.0	.4	3.5	29	12.8
35/39	.0	.0	.0	.0	.4	.9	1.8	.0	7	3.1
TOTAL	0	2	7	21	43	63	49	40	227	100.0
PCT	.0	.9	3.1	9.3	18.9	28.0	21.6	17.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0
65/69	.3	.8	.8	.1	.0	.0	.0	.0	.0	.0
60/64	.0	.0	.0	.4	.8	1.4	.0	.0	.0	.0
55/59	1.1	1.0	.0	1.4	5.0	2.5	2.1	1.0	.0	.0
50/54	4.6	1.4	1.3	2.3	5.8	7.6	5.3	6.8	.0	1.8
45/49	3.0	1.5	1.1	2.0	3.2	4.0	8.6	3.5	.0	1.3
40/44	1.7	.7	1.0	.2	.3	1.5	4.3	2.6	.0	.4
35/39	1.1	.0	.4	.0	.0	.0	.8	.8	.0	.0
TOTAL	11.8	5.2	4.6	6.5	15.1	17.1	21.5	14.6	.0	3.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	66	61	51	41	33	30	51.1	1034
06009	70	64	62	51	41	32	27	51.1	893
12015	71	64	58	49	39	32	27	48.9	872
18021	68	61	57	48	39	34	25	48.3	632
TOT	71	64	60	50	39	33	25	50.0	3431

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	11.7	24.7	28.6	11.7	23.4	75	77
06009	.0	20.7	20.7	25.9	19.0	13.8	73	58
12015	.0	16.7	11.1	24.1	33.3	14.8	76	54
18021	.0	2.6	15.4	38.5	28.2	15.4	78	39
TOT	0	31	43	65	49	40	75	228

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1959-1974

OCTOBER

AREA 0025 SOVA STRAIT E
46.0N 145.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	NO FOG
29/29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	10	.0	.3
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2	16	*	.5
11/13	.0	.0	.0	.0	.0	.0	.1	.2	.2	.3	.1	.0	24	.0	.8
9/10	.0	.0	.0	.0	.0	.1	.4	.3	.3	.3	.1	*	46	*	1.5
7/8	.0	.0	.0	.0	.0	.1	.3	.6	.7	.5	.1	*	74	*	2.4
6	.0	.0	.0	.0	*	*	.3	.2	.3	.2	.0	.0	33	.1	1.0
5	.0	.0	.0	.0	*	.3	.6	1.2	.9	.6	.1	.0	113	.2	3.5
4	.0	.0	.0	.0	.1	.7	1.6	1.3	1.0	.5	*	.0	161	.2	5.0
3	.0	.0	.0	.0	.1	.4	.5	1.0	.7	.3	.0	.0	90	.1	2.8
2	.0	.0	.0	.1	.2	1.6	2.2	2.6	1.3	.6	.0	.0	266	.4	8.2
1	.0	.0	.0	.0	.2	.7	1.3	1.6	.7	.1	*	.0	144	.1	4.5
0	.0	.0	.0	*	.5	3.3	3.5	3.4	1.4	.3	.0	.0	381	.7	11.7
-1	.0	.0	*	*	.1	.9	2.0	1.3	.5	.1	*	.0	154	.2	4.8
-2	.0	.0	.0	.2	.6	3.6	3.6	1.9	.4	*	.0	*	317	.2	10.0
-3	.0	.0	.0	.0	.5	1.4	1.7	.9	.2	.0	.1	.0	147	.2	4.6
-4	.0	.0	.1	.2	1.1	3.4	2.3	1.2	.2	*	.0	.0	264	.3	8.3
-5	.0	*	.1	.3	1.2	2.8	1.6	.9	.1	*	.0	.0	217	.2	6.9
-6	.0	.0	.1	.1	.6	1.2	.5	.4	.0	.0	.0	.0	87	*	2.8
-7/-8	.0	*	.1	.7	1.4	2.5	1.3	.2	.1	*	.0	.0	198	.2	6.2
-9/-10	.0	*	.1	.6	1.6	1.9	.6	.1	.0	.0	.0	.0	154	.1	4.9
-11/-13	.0	.2	.2	.6	1.1	.8	.5	.2	.0	.0	.0	.0	104	.1	3.3
-14/-16	.1	.1	.3	.4	.2	.4	.1	.0	.0	.0	.0	.0	47	*	1.5
-17/-19	*	.2	.2	.0	*	*	*	.0	.0	.0	.0	.0	17	.1	.5
-20/-22	.0	*	.1	*	.1	.0	.1	.0	.0	.0	.0	.0	11	.0	.4
-23/-25	.0	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
-26/-30	.1	*	*	.0	*	.1	.0	.0	.0	.0	.0	.0	7	.0	.2
<-30	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	6	21	43	96	290	816	775	607	279	122	27	8	3090	102	2988
PCT	.2	.7	1.4	3.1	9.4	26.4	25.1	19.6	9.0	3.9	.9	.3	100.0	3.3	96.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.7	*	.0	.0	.0		1.0	.2	.9	.1	.0	.0	.0		1.2
1-2	*	1.3	1.3	.0	.0	.0		2.6	.1	.6	.6	.0	.0	.0		1.3
3-4	.0	.2	1.2	.4	.0	.0		1.8	.0	.5	.9	*	.0	.0		1.4
5-6	.0	.1	.5	.2	.1	.0		.9	.1	.1	.5	.3	.0	.0		1.0
7	.0	.1	.3	.4	.2	.0		.9	.0	.0	.3	.4	*	.0		.7
8-9	.0	.1	.1	.2	.0	.0		.3	.0	.0	.2	.2	.1	.0		.4
10-11	.0	.0	.2	.1	.2	.0		.5	.0	.0	*	.2	*	.0		.2
12	.0	.1	.0	.1	.0	.0		.1	.0	.0	.1	.1	.0	.0		.1
13-16	.0	.0	.1	*	.0	.0		.2	.0	.0	.1	.1	.1	.0		.2
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.1	.1	.0		.2
20-22	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	2.5	3.8	1.4	.4	.0		8.5	.3	2.1	2.9	1.3	.2	.0		6.8

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.6	.6	.0	.0	.0		.8	.1	.8	.1	.0	.0	.0		1.0
1-2	.0	.4	.6	.0	.0	.0		1.0	.0	1.0	.5	.0	.0	.0		1.5
3-4	.0	.3	.4	.1	.0	.0		.8	.0	.5	1.0	.3	.0	.0		1.9
5-6	.0	*	.4	.3	.0	.0		.8	.0	.1	.7	.3	.0	.0		1.0
7	.0	.1	.1	.2	.0	.0		.4	.0	.1	.6	.2	.1	.0		.9
8-9	.0	.0	.0	.1	.0	.0		.1	.0	.0	.2	.2	.1	.0		.6
10-11	.0	.0	.2	.1	.1	.0		.4	.0	.0	.2	.1	.0	.0		.3
12	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.3	.2	.0		.5
13-16	.0	.0	.1	.1	.1	.0		.2	.0	.0	.1	.0	.1	.0		.1
17-19	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	1.4	1.8	1.2	.2	.0		4.7	.1	2.4	3.3	1.4	.4	.0		7.7

PERIOD: (OVER-ALL) 1963-1974

OCTOBER

AREA 0025 SOYA STRAIT E
46.0N 145.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.6	.1	.0	.0	.0	1.8	.2	1.2	.1	.0	.0	.0	1.5
1-2	.1	1.5	1.8	.0	.0	.0	3.4	.1	2.3	2.5	.0	.0	.0	4.8
3-4	.0	.7	2.3	.5	.0	.0	3.4	.0	.9	3.6	.4	.0	.0	4.9
5-6	.0	.3	1.5	.8	.0	.0	2.6	.0	.2	2.0	.7	.1	.0	3.0
7	.1	.1	.7	.5	.0	.0	1.4	.0	.1	.8	.3	.0	.0	1.2
8-9	.0	.0	.2	.4	.0	.0	.7	.0	.0	.2	.4	.1	.0	.7
10-11	.0	.0	.0	.3	.1	.0	.4	.0	.0	.1	.1	.1	.1	.3
12	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.1	.1	.0	.2
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	.1	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.3	6.8	2.4	.2	.0	14.0	.3	4.7	9.4	2.1	.4	.1	16.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.4	.3	.0	.0	.0	2.0	.2	1.4	.1	.0	.0	.0	1.7	
1-2	.0	2.9	3.4	.0	.0	.0	6.4	.0	1.7	1.5	.0	.0	.0	3.2	
3-4	.0	.8	3.3	.5	.0	.0	4.7	.1	1.0	2.0	.3	.0	.0	3.4	
5-6	.0	.4	2.7	.8	.2	.0	4.2	.0	.3	2.2	.7	.1	.0	3.3	
7	.0	.2	1.0	.5	.0	.0	1.7	.1	.1	1.0	.6	.1	.0	1.9	
8-9	.0	.0	.6	.3	.1	.0	1.0	.0	.1	.2	.5	.0	.0	.7	
10-11	.0	.0	.3	.4	.1	.0	.7	.0	.0	.3	.2	.0	.0	.6	
12	.0	.0	.0	.2	.0	.0	.3	.0	.0	.1	.0	.1	.1	.3	
13-16	.0	.0	.1	.3	.1	.1	.5	.0	.0	.1	.1	.1	.0	.2	
17-19	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	5.7	11.7	3.2	.5	.1	21.5	.3	4.6	7.5	2.4	.5	.1	15.4	95.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	5.9	8.6	1.0	.0	.0	.0	15.6	085
1-2	.3	11.8	12.2	.0	.0	.0	24.3	
3-4	.1	4.9	14.6	2.7	.0	.0	22.2	
5-6	.1	1.6	10.4	4.1	.5	.0	16.7	
7	.2	.8	4.7	2.9	.4	.0	9.0	
8-9	.0	.2	1.7	2.3	.3	.0	4.5	
10-11	.0	.0	1.3	1.6	.5	.1	3.4	
12	.0	.1	.3	1.0	.4	.1	1.9	
13-16	.0	.0	.7	.6	.3	.1	1.7	
17-19	.0	.0	.1	.2	.2	.0	.6	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	27.9	47.2	15.5	2.8	.2	100.0	1727

PERIOD: (OVER-ALL) 1952-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	10.9	11.2	8.6	3.2	1.4	.7	.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	892	4
6-7	.0	1.3	3.1	4.1	4.1	2.7	1.7	.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	437	6
8-9	.0	.3	1.6	2.1	1.8	1.1	1.1	1.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	228	7
10-11	.0	.9	.3	.7	1.0	.7	.4	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	7
12-13	.0	.0	.4	.4	.1	.3	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	40	8
>13	.0	.0	.0	.3	.2	.3	.3	.2	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	40	11
INDEX	6.2	4.6	5.5	4.6	2.3	1.1	.7	.4	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	625	4
TOTAL	164	429	527	495	303	180	120	63	61	15	6	3	4	0	0	0	0	0	0	2375	5
PCT	7.1	18.1	22.2	20.8	12.8	7.6	5.1	2.7	2.6	.6	.3	.1	.2	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1933-1974AREA 0025 SOYA STRAIT E
46.0N 143.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	TMDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.0	.9	.8	.3	14.6	.5	.0	21.8	4.6	.0	1.2	.0	.3	.0	72.0
NE	11.1	.0	5.6	.0	14.2	.0	.0	28.9	4.9	.0	.4	.0	1.1	.0	64.7
E	13.5	.0	1.3	.0	13.5	.0	.0	28.5	4.3	.0	1.5	.0	1.0	.0	64.6
SE	15.7	.9	5.4	.0	4.5	.0	.0	25.6	6.0	.0	2.6	.0	.0	.9	64.9
S	11.1	.5	2.7	.0	3.1	.0	.8	17.9	8.1	.3	3.8	.5	.8	1.3	67.4
SW	4.6	.3	1.1	.4	5.7	.3	.4	12.4	4.6	.4	2.4	.3	.4	1.1	78.5
W	1.6	.5	.6	.1	12.2	.7	.5	15.7	6.8	.2	1.0	.0	.1	.8	75.4
NW	1.9	.2	.3	*	18.4	.2	.1	20.7	6.6	.0	.5	.0	.6	.4	71.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2	.0	.0	.0	6.7	.0	.0	8.9	.0	.0	.0	.0	.0	.0	91.1
TOT PCT	4.8	.4	1.3	.1	12.0	.3	.3	18.8	6.0	.1	1.4	.1	.4	.6	72.6
TOT OBS:	2457														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	TMDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0003	4.6	.6	1.9	.2	11.3	.2	.4	18.3	4.6	.1	1.7	.0	.6	.2	74.4
0609	4.7	.4	1.5	.0	12.5	.4	.4	19.9	7.4	.0	1.3	.3	.1	1.2	69.8
1215	4.9	.5	.9	.3	13.8	.5	.3	20.7	5.7	.3	1.1	.0	.5	.6	71.1
1821	4.3	.2	.4	.0	9.9	.0	.0	14.8	7.2	.2	1.6	.0	.7	.4	75.1
TOT PCT	4.7	.5	1.3	.2	12.0	.3	.3	18.7	6.0	.2	1.4	.1	.5	.6	72.5
TOT OBS:	2597														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15
N	.3	2.7	3.8	1.7	.4	*		8.9	16.5	8.6	8.1	7.5	8.7	8.0	12.3	9.7
NE	.3	1.5	2.1	.8	.3	.2		5.2	16.4	5.1	7.9	4.0	8.4	5.8	4.1	5.5
E	.6	1.8	1.1	.4	.1	.1		4.0	12.6	3.3	8.6	2.9	5.8	2.4	3.6	4.1
SE	.4	1.9	1.3	.5	.1	.0		4.3	12.6	3.4	6.0	3.3	6.8	2.9	9.5	5.7
S	.5	3.0	4.3	1.1	.4	.0		9.2	14.9	9.0	10.9	10.0	7.9	7.6	6.6	11.8
SW	.5	4.1	7.2	2.5	.5	.1		14.9	15.9	17.3	8.3	15.7	12.6	18.6	8.4	12.8
W	.4	3.4	12.3	6.5	.9	.4		26.0	18.2	24.5	26.9	31.0	23.7	28.0	23.4	21.2
NW	.2	6.0	11.1	6.5	1.6	.1		25.6	18.3	26.4	23.3	24.7	26.1	24.2	31.1	25.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	2.5	.0	.9	.0	2.5	.9	3.4
TOT OBS	109	559	917	428	92	18	2123		16.5	527	145	444	95	439	110	266
TOT PCT	5.1	26.3	43.2	20.2	4.3	.8		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	06	09	12	18
N	1.4	3.7	2.6	.9	.2		8.9	16.5	8.5	7.7	8.9	11.6		
NE	1.3	1.9	1.3	.4	.4		5.2	16.4	5.7	4.8	5.5	4.8		
E	1.2	1.8	.7	.2	.1		4.0	12.6	4.4	3.4	2.7	6.1		
SE	1.1	2.0	.9	.2	*		4.3	12.6	3.9	3.9	4.2	5.4		
S	1.7	3.7	2.9	.8	*		9.2	14.9	9.4	9.6	7.4	10.9		
SW	2.0	6.7	5.1	1.0	.2		14.9	15.9	15.3	15.1	16.5	11.5		
W	2.0	10.1	9.6	3.5	.7		26.0	18.2	25.0	29.7	27.0	20.6		
NW	1.8	10.0	10.0	3.4	.5		25.6	18.3	25.7	25.0	25.6	26.7		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	1.8						1.8	.0	1.9	.7	2.2	2.5		
TOT OBS	303	845	706	223	46	2123		16.5	672	939	549	363		
TOT PCT	14.3	39.8	33.3	10.5	2.2		100.0		100.0	100.0	100.0	100.0		

NOVEMBER

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1933-1974AREA 0025 SOYA STRAIT E
46.0N 145.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	1.9	3.4	24.4	46.3	19.0	4.2	.7	16.5	100.0	672
06009	.7	2.8	27.5	41.4	21.0	5.2	1.5	17.2	100.0	539
12015	2.2	3.5	27.7	41.5	20.8	4.0	.4	16.2	100.0	549
18021	2.5	3.9	26.2	42.7	20.1	3.9	.8	16.1	100.0	363
TOT	38	71	359	917	428	92	18	16.5		2123
PCT	1.8	3.3	26.3	43.2	20.2	4.3	.8	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	1.3	2.9	3.2		3.8
NE	.3	.2	1.2	2.0		0.6
E	.7	.1	.8	2.1		0.2
SE	.5	.1	1.4	2.6		0.7
S	.6	.7	2.7	4.6		0.7
SW	2.3	2.4	5.6	4.9		5.6
W	2.6	3.3	12.9	7.1		5.8
NW	3.1	3.6	12.1	9.4		5.9
VAR	.0	.0	.0	.0		.0
CALM	.6	.2	.7	.7		4.8
TOT OBS	204	207	710	648	1769	5.9
TOT PCT	11.5	11.7	40.1	36.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.4	.1	.1	.5	1.6	2.5	.6	.0	.0	.1	2.6	
NE	.2	.1	.1	.3	1.2	.9	.2	.1	.0	.0	.6	
E	.7	.0	.0	.4	.5	1.1	.1	.0	.0	.0	.9	
SE	.7	.0	.1	.3	1.0	1.0	.4	.1	.1	.1	.7	
S	.7	.0	.1	.2	2.0	2.6	.6	.0	.1	.1	2.0	
SW	.6	.0	.5	2.4	3.5	1.2	.1	.1	.5	.4	5.9	
W	1.5	.1	.5	1.2	5.7	6.8	1.7	.3	.2	.4	7.6	
NW	1.9	.1	.4	1.6	5.6	8.1	1.7	.1	.1	.1	8.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	.2	.8	.1	.1	.0	.0	.8	
TOT OBS	120	6	25	89	358	486	115	13	17	21	519	1769
TOT PCT	6.8	.3	1.4	5.0	20.2	27.5	6.5	.7	1.0	1.2	29.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	• OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	1.2	1.9	2.2	2.2	2.2	2.2	2.2	2.2
• OR >5000	1.5	2.4	2.7	2.6	2.8	2.8	2.8	2.8
• OR >3500	5.2	7.9	8.5	8.6	8.7	8.8	8.8	8.8
• OR >2000	20.4	31.0	34.7	35.8	36.3	36.7	36.8	36.8
• OR >1000	27.8	44.8	52.2	54.1	55.4	56.1	56.4	56.5
• OR >600	29.9	48.3	56.4	58.6	60.2	61.0	61.6	61.7
• OR >300	30.3	49.2	57.6	60.0	61.7	62.5	63.1	63.3
• OR >150	30.3	49.3	57.7	60.3	62.0	62.8	63.4	63.6
• OR >0	30.5	50.5	61.0	64.7	67.7	68.8	70.5	70.7
TOTAL	564	935	1129	1199	1253	1275	1305	1310

TOTAL NUMBER OF OBS: 1852

PCT FREQ NH <5/8: 29.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.9	2.8	6.5	7.0	6.6	8.3	14.1	14.0	28.0	6.4	1999

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1939-1974

NOVEMBER

TABLE 8

AREA 0025 SOVA STRAIT E
46.0N 145.1E

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.1	.3	.1	.1	.2	.7	.9	.0	*	2.7	
	NO PCP	.0	.1	.0	*	.2	.1	.2	.1	.0	.0	.8	
	TOT %	.3	.2	.3	.1	.3	.3	.9	1.0	.0	*	3.5	
1/2<1	PCP	.2	.2	.2	.1	.2	.2	.6	.9	.0	.1	2.5	
	NO PCP	.0	*	*	.1	*	.1	.2	.1	.0	.0	.6	
	TOT %	.2	.2	.2	.1	.2	.3	.8	1.0	.0	.1	3.1	
1<2	PCP	.2	.3	.3	.2	.2	.2	.5	.9	.0	*	2.9	
	NO PCP	.1	*	.1	.1	.2	.2	.2	.2	.0	*	1.1	
	TOT %	.3	.4	.3	.3	.5	.4	.7	1.1	.0	.1	4.0	
2<5	PCP	.6	.5	.2	.6	.5	.5	1.2	1.8	.0	*	5.9	
	NO PCP	.9	.3	.2	.3	.4	.7	1.5	1.5	.0	.2	5.4	
	TOT %	.9	.8	.4	.9	1.0	1.2	2.7	3.3	.0	.2	11.3	
5<10	PCP	.5	.1	.1	.3	.4	.5	1.1	1.1	.0	.0	4.0	
	NO PCP	1.6	.9	.7	.9	1.9	2.6	5.6	6.3	.0	.1	20.6	
	TOT %	2.0	.9	.8	1.2	2.2	3.1	6.7	7.4	.0	.1	24.5	
10+	PCP	.2	.1	.2	*	.3	.1	.3	.4	.0	.0	1.6	
	NO PCP	4.8	1.9	1.9	2.0	4.5	8.7	14.1	12.9	.0	1.3	52.1	
	TOT %	5.0	2.0	2.1	2.1	4.7	8.8	14.3	13.3	.0	1.3	53.7	
TOT OBS													2475
TOT PCT		8.8	4.5	4.0	4.7	8.9	14.2	26.0	27.1	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	*	.2	.1	.0	.0	.0	.1	.0	.0	*	.4	
	11-21	.1	.0	*	.0	.1	.1	.2	.3	.0		1.0	
	22+	.1	.1	*	.0	*	.2	.3	.4	.0		1.3	
	TOT %	.3	.3	.2	.0	.2	.3	.7	.8	.0	*	2.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.1	.1	.1	*	.0	*	.1	.1	.0		.5	
	11-21	.1	.1	.1	.1	*	.2	.1	.6	.0		1.3	
	22+	.1	.1	*	.1	.1	.1	.4	.4	.0		1.3	
	TOT %	.2	.3	.3	.2	.1	.3	.7	1.0	.0	*	3.2	
1<2	0-3	.0	*	.0	*	*	*	.0	.0	.0	.1	.3	
	4-10	.1	*	.1	.1	.1	.1	.1	.4	.0		1.0	
	11-21	.2	.2	.1	*	.1	.2	.5	.5	.0		1.8	
	22+	.2	.2	.1	.1	.3	.1	.3	.5	.0		1.8	
	TOT %	.4	.4	.3	.3	.6	.4	.9	1.4	.0	.1	4.8	
2<5	0-3	.1	.0	.0	.1	*	.1	.0	*	.0	.2	.5	
	4-10	.1	.1	.1	.1	.1	.4	.5	.5	.0		2.0	
	11-21	.3	.4	.1	.3	.6	.4	1.3	1.0	.0		4.6	
	22+	.3	.3	*	.3	.2	.3	1.1	1.7	.0		4.2	
	TOT %	.8	.9	.2	.7	1.0	1.3	2.9	3.3	.0	.2	11.3	
5<10	0-3	*	.0	.1	.1	.2	.1	.0	*	.0	.1	.7	
	4-10	.6	.3	.3	.4	.4	.6	1.1	1.4	.0		5.1	
	11-21	1.0	.5	.2	.5	1.1	1.7	2.8	2.9	.0		10.7	
	22+	.5	.3	.1	.1	.5	.7	2.7	2.2	.0		7.2	
	TOT %	2.1	1.0	.8	1.1	2.3	3.1	6.6	6.6	.0	.1	23.8	
10+	0-3	.2	.2	.5	.2	.2	.2	.4	.2	.0	1.3	3.4	
	4-10	1.8	.8	1.1	1.2	2.3	3.0	3.5	3.7	.0		17.3	
	11-21	2.1	1.0	.5	.4	2.3	4.4	7.4	5.9	.0		24.0	
	22+	.9	.2	.1	.1	.3	1.7	3.0	3.0	.0		9.4	
	TOT %	5.0	2.2	2.3	2.0	5.1	9.3	14.3	12.7	.0	1.3	54.2	
TOT OBS													2080
TOT PCT		8.8	5.2	4.1	4.3	9.3	14.8	26.0	25.8	.0	1.8	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1933-1974AREA 0025 SOYA STRAIT E
46.0N 145.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 289	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00009	4.5	.4	2.2	5.4	17.9	30.7	6.9	.9	1.2	1.5	71.6	28.4	670
06009	4.9	.4	1.6	6.4	24.2	27.0	6.9	.7	.7	.5	73.3	26.7	566
12015	11.6	.0	1.0	4.6	18.8	22.7	3.9	.7	1.2	1.4	65.8	34.2	415
18021	10.3	.4	.4	1.9	13.4	27.1	5.7	.0	.4	1.1	60.7	39.3	262
TOT	133	6	29	96	370	524	116	13	18	22	1327	586	1913
PCT	7.0	.3	1.5	5.0	19.3	27.4	6.1	.7	.9	1.2	69.4	30.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.0	2.8	4.8	9.6	21.9	58.9	846
06009	3.7	3.5	4.0	12.9	23.5	52.5	707
12015	4.9	4.3	5.5	14.1	25.1	46.2	676
18021	3.7	2.8	4.6	13.0	28.9	47.1	461
TOT	93	91	127	327	654	1398	2690
PCT	3.5	3.4	4.7	12.2	24.3	52.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	4.6	9.6	23.9	50.7	25.4	649
06009	5.5	10.9	27.9	48.0	24.1	548
12015	12.2	17.6	33.5	35.5	31.0	403
18021	11.5	13.9	27.8	37.7	34.5	252
TOT	138	228	513	830	509	1852
PCT	7.5	12.3	27.7	44.8	27.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
53/54	.0	.0	.0	.0	.9	2.3	2.3	1.9	16	7.4
45/49	.0	.0	.0	.5	5.6	5.6	6.0	1.9	42	19.4
40/44	.0	.0	.5	3.2	4.6	8.8	.9	5.1	50	23.1
35/39	.0	.0	.5	2.3	8.3	5.6	6.5	4.6	60	27.8
30/34	.0	.0	.0	.0	2.3	.9	5.1	4.6	28	13.0
25/29	.0	.0	.0	.0	.9	1.9	2.3	4.2	20	9.3
TOTAL	0	0	2	13	48	54	50	48	216	100.0
PCT	.0	.0	.9	6.0	22.7	25.0	23.1	22.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
53/54	.0	.5	.0	.0	2.0	2.4	1.6	.9	.0	.0
45/49	1.4	.6	1.6	1.4	2.2	4.9	5.6	1.4	.0	.5
40/44	1.7	1.3	1.6	1.0	3.2	5.1	5.9	3.2	.0	.0
35/39	2.7	.6	4.1	.0	2.2	1.6	4.9	11.8	.0	.0
30/34	1.4	.6	.3	.9	.8	.7	4.1	3.7	.0	.5
25/29	.3	.0	.5	.0	.0	.0	2.3	6.1	.0	.0
TOT	7.5	3.5	8.1	3.4	10.4	14.7	24.3	27.2	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	59	54	50	38	25	18	12	37.7	826
06009	59	53	49	37	23	16	14	37.4	689
12015	54	52	47	37	23	17	10	36.0	669
18021	55	52	47	36	23	16	12	35.6	463
TOT	59	53	49	37	23	18	10	36.8	2647

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.3	18.8	34.4	28.1	12.5	77	64		
06009	.0	6.3	28.6	20.6	25.4	19.0	77	63		
12015	.0	12.0	20.0	20.0	18.0	30.0	79	50		
18021	.0	2.4	21.4	28.6	16.7	31.0	80	42		
TOT	0	15	49	57	50	48	78	219		

NOVEMBER

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1933-1974AREA 0025 SOVA STRAIT E
46.0N 145.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	2	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	*	*	10	.0	.4
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	*	*	.0	11	.0	.5
7/8	.0	.0	.0	.0	.0	.0	.0	*	.3	.3	.3	.2	*	28	.0	1.2
6	.0	.0	.0	.0	.0	.0	.0	.1	.0	.4	.3	.1	.0	20	*	.8
5	.0	.0	.0	.0	.0	.0	.0	.0	.4	.7	.7	.1	.0	45	*	1.8
4	.0	.0	.0	.0	.0	.0	.0	.3	.5	.9	.6	*	.0	55	.1	2.2
3	.0	.0	.0	.0	.0	.0	.1	.1	.5	.5	.4	*	.0	38	*	1.5
2	.0	.0	.0	.0	.0	.0	.1	.8	1.0	1.5	.7	.0	*	99	.0	4.1
1	.0	.0	.0	.0	.0	.0	.1	.3	.9	.9	.2	*	.0	59	.0	2.5
0	.0	.0	.0	.0	.0	.1	.3	1.6	1.7	2.2	.4	.1	.0	151	.1	6.2
-1	.0	.0	.0	.0	.0	.0	.1	1.0	.6	.9	.4	.0	.0	70	.1	2.8
-2	.0	.0	.0	.0	*	.5	.8	1.7	1.6	1.4	.3	.1	.0	153	.2	6.2
-3	.0	.0	.0	.0	.0	.1	.4	1.5	1.4	.6	.1	.0	.0	100	.0	4.2
-4	.0	.0	.0	.0	.2	.7	1.9	2.5	1.7	.8	*	*	.0	189	.1	7.8
-5	.0	.0	.0	.0	.2	1.0	1.9	3.1	1.4	.6	.1	.1	.0	201	.2	8.2
-6	.0	.0	.0	.0	.1	.3	.9	.7	.6	.1	*	.0	.0	65	.1	2.6
-7/-8	.0	.0	.0	*	1.0	1.9	3.1	3.0	.7	.3	*	.0	.0	242	*	10.1
-9/-10	.0	.0	.0	.1	1.0	2.0	2.1	1.8	.5	.3	.0	.0	.0	189	*	7.9
-11/-13	.0	.0	*	.6	2.9	2.9	2.7	1.8	.5	.1	.0	.0	.0	277	*	11.5
-14/-16	.0	.0	.1	.7	3.6	2.1	.9	.5	.1	.1	.0	.0	.0	191	*	7.9
-17/-19	.0	*	.2	.7	1.6	.8	.2	.1	*	.0	.0	.0	.0	88	*	3.6
-20/-22	.0	*	.4	1.0	.7	.3	.1	*	.0	.0	.0	.0	.0	61	.0	2.6
-23/-25	*	.1	.2	.4	.2	*	.0	*	.0	.0	.0	.0	.0	25	.0	1.0
-26/-30	.0	.1	.0	.1	.1	*	.1	.0	.0	.0	.0	.0	.0	13	.0	.4
<-30	.2	.2	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	10	.0	.4
TOTAL	5		23		276		376		353		109		4		28	2362
PCT	.2	.4	1.0	3.6	11.5	13.0	15.7	20.9	14.9	13.1	4.6	1.0	.2	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.7	.0	.0	.0	.0	.8	.2	.5	.0	.0	.0	.0	.8
1-2	.0	.7	.9	.0	.0	.0	1.6	.1	.2	.5	.0	.0	.0	.7
3-4	.1	.5	.7	.5	.0	.0	1.7	*	.2	.7	.1	.0	.0	1.0
5-6	.0	.1	.5	.4	.1	.0	1.0	.0	.1	.4	.2	.0	.0	.7
7	.0	.1	.7	.3	.1	.0	1.2	.0	.0	.1	.2	.1	.0	.4
8-9	.0	.0	.3	.1	.0	.0	.5	.0	.0	*	.4	.0	.0	.5
10-11	.0	.0	.1	.3	.1	.0	.5	.0	.0	.0	.1	*	.0	.1
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.1	.1	.1	.0	.2
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.2	3.2	1.8	.5	.0	7.8	.3	1.0	1.8	1.1	.3	.0	4.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.4	.0	.0	.0	.0	.5	.1	.2	.0	.0	.0	.0	.3
1-2	.1	.4	.4	.0	.0	.0	.9	.1	.7	.6	.0	.0	.0	1.5
3-4	.0	.1	.2	.1	.0	.0	.4	.0	.1	.5	.0	.0	.0	.6
5-6	.0	.1	.1	.1	.0	.0	.3	.0	.1	.3	.1	.0	.0	.5
7	.0	.0	.1	.1	.0	.1	.2	.0	.0	.0	.3	*	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.0	.1
10-11	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.1	*	.0	.1
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.0	1.0	.5	.1	.1	2.9	.2	1.1	1.4	.5	.1	.0	3.3

PERIOD: (OVER-ALL) 1963-1974

NOVEMBER
TABLE 18 (CONT)AREA 0025 SOYA STRAIT E
46.0N 145.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.1	.0	.0	.0	.8	.3	1.2	.0	.0	.0	.0	1.6
1-2	.0	1.2	1.4	.0	.0	.0	2.6	.1	1.9	2.3	.0	.0	.0	4.3
3-4	.1	.4	1.4	.1	.0	.0	1.9	.1	.4	3.0	.7	.0	.0	4.1
5-6	.0	.2	.9	.3	.0	.0	1.5	.0	.4	1.9	.7	.0	.0	3.0
7	.1	.0	.4	.4	.1	.0	.9	.0	.1	.7	.8	.2	.0	1.8
8-9	.0	.0	.3	.3	.1	.0	.7	.0	.0	.2	.7	.1	.0	1.0
10-11	.0	.1	.0	.3	.2	.0	.5	.0	.0	.2	.2	.2	.0	.6
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.3	.1	.1	.0	.5
13-16	.0	.0	.0	.1	.1	.0	.1	.0	.0	.1	.1	.0	.1	.2
17-19	.0	.0	.1	.0	.1	.0	.2	.0	.0	.1	.1	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.5	4.6	1.4	.5	.0	9.2	.5	4.0	8.8	3.3	.7	.1	17.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.4	.5	.0	.0	.0	2.0	.1	1.5	.3	.0	.0	.0	1.9	
1-2	.0	1.5	3.0	.0	.0	.0	4.5	.0	1.6	3.3	.0	.0	.0	4.9	
3-4	.0	.9	3.2	1.3	.0	.0	5.4	.1	.8	3.6	.9	.0	.0	5.4	
5-6	.0	.3	3.5	1.7	.2	.0	5.7	.0	.5	1.7	2.2	.4	.0	4.8	
7	.0	.0	1.8	1.2	.2	.0	3.1	.0	.4	1.5	1.3	.2	.0	3.4	
8-9	.0	.0	.7	1.1	.1	.1	2.0	.0	.0	.6	.6	.4	.0	1.7	
10-11	.0	.0	.6	1.1	.1	.1	1.9	.0	.0	.4	.5	.2	.0	1.1	
12	.0	.0	.2	.6	.0	.1	.9	.0	.0	.2	.3	.0	.0	.6	
13-16	.0	.0	.1	.4	.2	.1	.8	.0	.1	.0	.7	.3	.0	1.1	
17-19	.0	.1	.0	.3	.1	.0	.5	.0	.0	.0	.0	.4	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.3	
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	4.2	13.5	7.7	1.0	.4	27.0	.2	4.9	11.6	6.7	2.0	.2	25.6	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.5	6.6	.8	.0	.0	.0	11.0	
1-2	.4	8.4	12.4	.0	.0	.0	21.1	
3-4	.3	3.4	13.3	3.5	.0	.0	20.5	
5-6	.0	1.8	9.5	5.6	.6	.0	17.5	
7	.1	.6	5.3	4.5	.9	.1	11.4	
8-9	.0	.0	2.2	3.3	.8	.1	6.3	
10-11	.0	.1	1.3	2.7	.9	.1	5.1	
12	.0	.0	.8	1.1	.3	.1	2.2	
13-16	.0	.1	.3	1.5	.8	.1	2.8	
17-19	.0	.1	.1	.6	.6	.0	1.4	
20-22	.0	.0	.0	.2	.1	.1	.4	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.1	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.2	20.9	45.9	23.1	5.1	.7	100.0	1423

PERIOD: (OVER-ALL) 1952-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	9.3	9.9	8.5	5.1	1.2	1.0	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	720	4
6-7	.0	.9	2.4	5.5	4.3	3.6	2.3	.8	1.2	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	422	7
8-9	.0	.4	.6	1.2	1.6	.8	1.6	.9	1.4	.3	.2	.2	.1	.0	.0	.0	.0	.0	.0	180	9
10-11	.0	.8	.4	.5	.6	.7	.8	.3	.7	.6	.0	.1	.1	.0	.0	.0	.0	.0	.0	108	9
12-13	.0	.0	.7	.4	.1	.5	.2	.1	.5	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	53	8
>13	.0	.0	.0	.5	.1	.1	.3	.1	.4	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	40	12
INDEX	3.5	4.3	5.3	3.3	2.8	1.5	1.0	.5	.7	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	456	4
TOTAL	83	314	380	392	287	166	142	57	104	34	8	6	6	0	0	0	0	0	0	1979	6
PCT	4.2	15.9	19.2	19.8	14.5	8.4	7.2	2.9	5.3	1.7	.4	.3	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1908-1973

DECEMBER

AREA 0025 SOYA STRAIT E
46.1N 143.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.8	.0	32.1	.0	.0	32.9	8.5	.0	1.7	.0	.0	.0	56.8
NE	1.0	.0	.0	.0	28.9	.0	.0	28.9	9.0	.0	1.9	.0	.2	.0	60.0
E	4.1	.0	3.0	.0	30.1	.0	.0	36.4	4.1	.0	3.6	.0	1.6	.0	54.2
SE	4.5	.0	2.3	.0	20.1	.0	.0	26.9	5.0	.0	3.5	.0	1.3	.0	63.3
S	4.5	.0	1.0	.0	22.4	.0	1.0	28.9	2.7	.0	.7	.0	.0	.0	67.7
SW	2.3	.5	.7	.0	20.9	.5	.5	24.4	4.1	.0	2.3	.0	.0	.5	68.7
W	1.0	.3	.2	.3	24.2	.3	.0	25.9	4.3	.0	.6	.0	1.0	.5	67.7
NW	.5	.5	.6	.0	27.7	.5	.0	29.3	5.6	.0	1.5	.0	.5	.8	62.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.5	.0	.0	3.2	3.2	.0	.0	12.9	6.5	.0	6.5	.0	.0	.0	74.2
TOT PCT	1.6	.2	.7	.1	25.6	.2	.1	28.3	5.5	.0	1.7	.0	.6	.4	63.6
TOT OBS:	1627														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
00003	1.6	.0	.7	.0	26.6	.0	.0	28.5	3.7	.0	2.5	.0	.7	.4	64.2
06009	.5	.5	.0	.2	24.8	.0	.2	25.8	5.3	.0	1.4	.0	.2	.2	67.0
12015	2.7	.2	1.0	.2	25.5	.5	.2	29.9	7.8	.0	1.5	.0	.7	.5	59.6
18021	1.2	.9	1.5	.0	25.0	.6	.0	28.2	5.0	.0	1.5	.0	.9	.9	63.5
TOT PCT TOT OBS:	1.5 1727	.3	.8	.1	25.6	.2	.1	28.1	5.3	.0	1.8	.0	.6	.5	63.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WNO DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.1	3.3	5.6	3.4	.4	.2		12.9	17.8		15.0	15.5	12.3	14.3	9.7	12.1	12.8	14.3
NE	.2	2.2	2.9	1.2	.2	.1		6.9	15.6		6.6	10.7	5.7	7.1	6.8	1.7	6.5	11.9
E	.2	1.4	2.0	.7	.1	.0		4.4	14.8		5.6	9.0	3.8	2.0	3.8	.0	2.2	6.0
SE	.2	1.7	1.7	.8	.1	.0		4.4	14.0		5.1	5.3	3.6	4.6	4.9	10.3	2.3	4.8
S	.2	2.1	2.5	.8	.2	.0		5.7	14.0		8.3	2.3	5.6	3.6	5.3	8.6	5.4	3.6
SW	.2	3.7	5.4	1.9	.5	.1		11.8	15.7		11.9	9.0	11.4	11.2	13.0	10.3	14.5	4.8
W	.4	5.8	12.9	6.6	1.1	.2		26.9	18.0		23.8	19.5	31.3	30.1	29.9	25.9	27.3	20.2
NW	.3	5.8	12.3	6.3	1.0	.2		25.7	17.3		22.5	28.8	26.1	25.0	24.3	31.0	27.6	34.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0		1.3	.0	.4	2.0	2.2	.0	1.5	.0
TOT OBS	36	337	591	280	46	8	1298		16.6		310	131	259	49	273	29	205	42
TOT PCT	2.8	26.0	45.9	21.6	3.5	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+						00	03	06	12	15	18	21
N	1.5	4.6	4.9	1.8	.2			12.9	17.8		15.1	12.6	9.9	13.1			
NE	1.1	3.5	1.6	.7	.1			6.9	15.6		7.8	5.9	6.3	7.4			
E	.8	1.9	1.4	.3	.0			4.4	14.8		6.6	3.5	3.5	2.8			
SE	1.0	1.8	1.4	.3	.0			4.4	14.0		5.2	3.7	5.5	2.7			
S	1.0	2.8	1.6	.3	.0			5.7	14.0		6.5	5.3	5.6	5.1			
SW	1.9	5.4	3.4	.9	.2			11.8	15.7		11.0	11.4	12.7	12.9			
W	2.4	9.4	11.8	2.7	.5			26.9	18.0		22.5	31.1	29.6	26.1			
NW	2.2	11.7	8.7	2.8	.3			25.7	17.3		24.4	25.9	24.9	28.7			
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0			
CALM	1.2							1.2	.0		.9	.6	2.0	1.2			
TOT OBS	169	533	452	127	17	1298			16.6		441	308	302	247			
TOT PCT	13.0	41.1	34.8	9.8	1.3			100.0			100.0	100.0	100.0	100.0			

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1908-1973

AREA 0025 SOYA STRAIT E
46.1N 145.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.9	2.0	29.3	45.1	18.1	3.9	.7	16.0	100.0	441
06009	.6	1.9	22.4	46.4	24.4	3.6	.6	17.3	100.0	308
12619	2.0	1.0	26.2	43.4	23.2	3.3	1.0	16.7	100.0	302
18621	1.2	1.2	24.3	47.8	22.3	3.2	.0	16.7	100.0	247
TOT	15	21	337	591	280	46	8	16.6		1298
PCT	1.2	1.6	26.0	45.5	21.6	3.5	.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	1.1	5.0	5.8		6.2
NE	.5	.3	2.0	3.9		6.7
E	.0	.2	1.4	4.0		7.4
SE	.1	.4	1.5	3.6		7.2
S	.4	.5	2.6	2.8		6.3
SW	1.2	1.3	4.9	4.7		6.0
W	2.9	3.0	10.8	8.7		5.9
NW	2.2	2.6	9.6	8.1		6.0
VAR	.0	.0	.0	.0		.0
CALM	.7	.5	.6	.6		4.4
TOT OBS	107	114	441	485	1147	6.2
TOT PCT	9.3	9.9	38.4	42.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	500	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
1.1	.0	.2	.6	3.8	3.2	.7	.1	.1	.1	3.4	
.5	.1	.1	.1	2.2	1.8	.5	.0	.0	.2	1.4	
.7	.0	.3	.1	1.4	1.7	.3	.2	.0	.2	.7	
.8	.0	.1	.3	1.1	1.9	.7	.0	.0	.1	.7	
1.0	.0	.2	.1	.9	2.0	.6	.1	.1	.1	1.4	
1.4	.1	.0	.4	1.8	3.0	.9	.3	.1	.3	3.8	
2.9	.1	.1	1.5	6.2	5.5	1.4	.2	.2	.5	6.9	
2.6	.2	.4	.7	3.8	6.2	2.0	.1	.1	.2	6.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.1	.1	.0	.6	.3	.2	.0	.0	1.2	
126	5	15	43	243	297	84	13	7	19	295	1147
11.0	.4	1.3	3.7	21.2	25.9	7.3	1.1	.6	1.7	25.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.9	1.3	1.9	1.9	2.0	2.1	2.1	2.1
>5000	1.4	2.3	2.9	2.9	3.1	3.2	3.2	3.2
>3500	4.4	7.7	9.0	9.4	9.8	10.1	10.1	10.1
>2000	17.2	27.6	32.0	33.6	34.9	35.7	35.7	35.7
>1000	22.5	39.4	47.8	51.0	54.1	56.1	57.1	57.1
>600	23.0	41.1	50.0	53.7	57.3	59.5	61.0	61.0
>300	23.0	41.5	50.9	54.8	58.6	60.8	62.2	62.2
>150	23.1	41.7	51.1	55.2	59.0	61.2	62.7	62.7
>0	23.3	43.3	53.3	62.1	67.9	71.2	74.3	74.3
TOTAL	277	515	657	738	807	846	883	883

TOTAL NUMBER OF OBS: 1189

PCT FREQ NH <5/8 25.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.1	1.5	5.6	5.9	5.6	7.3	13.1	11.9	33.6	10.3	1372

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1908-1973

DECEMBER

TABLE 8

AREA 0025 SOYA STRAIT E
46.1N 145.0E

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.9	.5	.6	.4	.3	.4	1.5	1.4	.0	.1	6.1	
	NO PCP	.1	.1	.0	.1	*	*	.2	.2	.0	.1	.9	
	TOT %	1.0	.6	.6	.5	.4	.5	1.6	1.6	.0	.2	7.0	
1/2<1	PCP	.8	.3	.2	.4	.2	.6	1.2	1.6	.0	.0	5.4	
	NO PCP	.1	.1	.0	.1	.1	.0	.3	.2	.0	.0	.8	
	TOT %	.9	.4	.2	.5	.3	.6	1.5	1.8	.0	.0	6.2	
1<2	PCP	1.0	.2	.5	.3	.5	.5	1.3	1.2	.0	.1	5.5	
	NO PCP	.2	.2	*	*	.0	.1	.4	.2	.0	.0	1.2	
	TOT %	1.2	.5	.6	.3	.5	.6	1.7	1.4	.0	.1	6.7	
2<5	PCP	1.0	.8	.5	.5	.2	.8	1.1	1.7	.0	.1	6.6	
	NO PCP	.8	.5	.6	.2	.3	.8	1.8	2.1	.0	.2	7.2	
	TOT %	1.8	1.2	1.1	.6	.5	1.7	2.8	3.9	.0	.2	13.9	
5<10	PCP	.5	.2	.0	.1	.5	.5	1.2	.8	.0	.0	3.8	
	NO PCP	3.5	1.4	1.1	1.6	1.1	2.3	5.3	5.3	.0	.4	22.0	
	TOT %	4.0	1.6	1.1	1.7	1.7	2.8	6.5	6.1	.0	.4	25.8	
10+	PCP	.3	.1	.2	*	.1	.1	.3	.3	.0	.0	1.3	
	NO PCP	4.2	2.9	1.8	2.4	2.8	5.3	10.0	8.6	.0	1.0	39.1	
	TOT %	4.5	3.0	2.0	2.4	2.9	5.4	10.3	8.9	.0	1.0	40.4	
TOT OBS													1631
TOT PCT		13.4	7.3	5.5	6.1	6.2	11.5	24.4	23.7	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.0	.0	.0	.0	.2	.0	.0	.1	.3	
	4-10	.1	.1	*	.1	.1	.1	.2	.2	.0	.0	.9	
	11-21	.5	.1	.4	.3	.3	.2	.6	.8	.0	.0	3.0	
	22+	.6	.3	.2	.2	.1	.1	.9	.8	.0	.0	3.2	
	TOT %	1.1	.7	.6	.6	.4	.4	1.9	1.8	.0	.1	7.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.1	.1	.1	.1	.1	.2	.2	.0	.0	1.1	
	11-21	.2	.2	.1	.2	.2	.4	.7	1.0	.0	.0	3.0	
	22+	.2	*	.1	.2	.0	.1	.5	.9	.0	.0	2.0	
	TOT %	.6	.4	.2	.5	.3	.6	1.4	2.1	.0	.0	6.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.1	*	.2	.3	.3	.4	.0	.0	1.5	
	11-21	.5	.1	.1	.2	.2	.3	.8	.6	.0	.0	2.8	
	22+	.2	.2	.3	*	.1	.2	.9	.5	.0	.0	2.4	
	TOT %	.9	.4	.5	.2	.5	.8	1.9	1.5	.0	.1	6.8	
2<5	0-3	.0	.1	.0	.0	.0	.0	.0	.2	.0	.2	.4	
	4-10	.2	.2	.3	.2	.2	.6	.4	.7	.0	.0	2.8	
	11-21	.8	.7	.3	.3	.2	.9	1.6	2.1	.0	.0	7.0	
	22+	.8	.4	.1	.0	.1	.3	1.4	1.4	.0	.0	4.4	
	TOT %	1.9	1.4	.7	.5	.5	1.8	3.4	4.2	.0	.2	14.5	
5<10	0-3	.0	.0	.0	.0	.1	.1	.2	.0	.0	.2	.6	
	4-10	.8	.5	.2	.4	.5	.8	1.2	1.3	.0	.0	5.7	
	11-21	1.8	.9	.6	.3	.5	1.3	3.9	3.3	.0	.0	12.6	
	22+	1.5	.3	.2	.2	.2	.7	1.6	2.1	.0	.0	6.8	
	TOT %	4.1	1.7	1.0	.9	1.3	2.9	6.8	6.6	.0	.2	25.6	
10+	0-3	.1	.1	.2	.2	.1	.2	.1	.1	.0	.6	1.4	
	4-10	2.0	1.2	.8	.8	1.1	1.6	3.6	3.0	.0	.0	13.8	
	11-21	1.9	.9	.6	.5	1.2	2.1	5.6	4.5	.0	.0	17.4	
	22+	.6	.3	.0	.2	.5	1.2	2.5	1.7	.0	.0	6.8	
	TOT %	4.5	2.5	1.3	1.7	2.8	5.0	11.7	9.3	.0	.6	39.4	
TOT OBS													1265
TOT PCT		13.1	7.0	4.4	4.4	5.9	11.6	27.1	25.3	.0	1.1	100.0	

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1908-1973AREA 0025 SOVA STRAIT E
46.1N 145.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	5.6	.5	2.0	4.6	23.2	28.4	8.1	.7	.5	2.4	76.0	24.0	409
06009	7.5	.3	1.5	4.8	23.5	30.7	9.0	.6	.6	.3	78.9	21.1	332
12015	18.9	.7	.4	2.5	16.4	18.6	5.0	2.5	.7	2.1	67.9	32.1	280
18021	20.0	.0	.5	2.4	19.5	18.0	4.4	.5	.5	1.0	66.8	33.2	205
TOT	142	5	15	47	259	307	86	13	7	19	900	326	1226
PCT	11.6	.4	1.2	3.8	21.1	25.0	7.0	1.1	.6	1.5	73.4	26.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	7.2	5.9	6.8	12.1	22.9	45.1	572
06009	7.0	5.6	5.4	14.1	25.6	42.3	426
12015	5.6	5.4	8.0	18.2	27.3	35.5	411
18021	8.8	8.3	8.0	15.1	26.8	33.0	351
TOT	125	109	123	257	446	700	1760
PCT	7.1	6.2	7.0	14.6	25.3	39.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	5.5	16.4	34.3	43.8	21.9	397
06009	7.7	16.0	30.9	50.0	19.1	324
12015	19.4	26.5	42.5	28.7	28.7	268
18021	19.5	29.0	44.0	28.0	28.0	200
TOT	138	246	438	469	282	1189
PCT	11.6	20.7	36.8	39.4	23.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.7	.0	.0	.0	.0	.0	1	.7
45/49	.0	.0	.0	.0	.0	1.4	.7	.0	3	2.1
40/44	.0	.0	.0	.0	.0	1.4	4.1	.7	9	6.2
35/39	.0	.7	.0	.0	.7	2.1	1.4	4.8	14	9.6
30/34	.0	.0	.0	1.4	1.4	5.5	3.4	9.6	31	21.2
25/29	.0	.0	.0	1.4	2.1	2.7	10.3	15.1	46	31.5
20/24	.0	.0	.0	.7	1.4	2.7	5.5	13.0	34	23.3
15/19	.0	.0	.0	.0	1.4	1.4	2.1	.7	8	5.5
TOTAL	0	1	1	5	10	29	40	64	146	100.0
PCT	.0	.7	.7	3.4	6.8	17.1	27.4	43.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0
45/49	.7	.0	.0	.0	.0	.7	.5	.2	.0	.0
40/44	.0	1.5	.5	.0	1.2	1.0	.5	1.4	.0	.0
35/39	.7	.0	.0	.0	.0	5.0	1.2	1.4	.0	1.4
30/34	2.9	2.7	1.4	.2	.5	3.1	6.2	4.3	.0	.0
25/29	5.7	3.6	1.2	1.4	1.4	3.3	9.6	5.5	.0	.0
20/24	4.6	4.5	.0	.0	.0	.2	9.1	5.0	.0	.0
15/19	1.9	.3	1.0	.0	.0	.0	.0	2.2	.0	.0
TOTAL	16.4	12.7	4.1	1.5	3.1	13.2	27.7	19.9	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	52	46	41	28	18	11	7	29.1	565
06009	52	46	41	30	18	11	7	30.0	413
12015	46	43	39	28	18	13	7	28.7	409
18021	46	45	39	28	18	10	5	28.4	339
TOT	52	45	41	28	18	11	5	29.1	1726

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.7	10.2	20.3	30.5	37.3	84	59		
06009	.0	11.1	5.6	8.3	22.2	52.8	84	36		
12015	.0	12.0	4.0	16.0	24.0	44.0	83	25		
18021	.0	.0	3.6	21.4	28.6	46.4	87	28		
TOT	0	8	10	25	40	65	84	148		

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1908-1973AREA 0025 SOVA STRAIT E
46.1N 149.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	6	.0	.4
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	6	.0	.4
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	2	.0	.1
5	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	6	.0	.4
4	.0	.0	.0	.0	.0	.0	.1	.1	.4	.1	.5	.0	20	.1	1.3
3	.0	.0	.0	.0	.0	.0	.0	.3	.2	.2	.1	.0	11	.1	.6
2	.0	.0	.0	.0	.0	.0	.1	.5	1.3	.3	.0	.0	33	.0	2.2
1	.0	.0	.0	.0	.0	.0	.1	.5	1.1	.1	.1	.0	26	.0	1.7
0	.0	.0	.0	.0	.0	.1	1.2	1.1	1.4	.7	.3	.0	72	.1	4.7
-1	.0	.0	.0	.0	.0	.5	1.2	.7	.2	.1	.0	.0	41	.1	2.6
-2	.0	.0	.0	.0	.0	.5	.9	2.1	.8	.5	.1	.0	73	.1	4.8
-3	.0	.0	.0	.0	.0	.3	.8	1.4	.7	.1	.0	.0	49	.1	3.2
-4	.0	.0	.0	.0	.0	1.5	1.9	1.5	1.0	.1	.1	.0	90	.1	5.9
-5	.0	.0	.0	.0	.0	1.7	2.2	2.0	.6	.4	.0	.0	104	.1	6.9
-6	.0	.0	.0	.0	.1	1.5	1.5	.5	.3	.0	.0	.0	57	.0	3.8
-7/-8	.0	.0	.0	.0	1.5	3.5	3.4	1.6	.3	.0	.0	.0	155	.2	10.2
-9/-10	.0	.0	.0	.1	1.8	4.8	2.1	.9	.2	.0	.0	.0	148	.2	9.7
-11/-13	.0	.0	.1	1.3	4.9	7.2	3.4	.8	.2	.0	.0	.0	268	.3	17.7
-14/-16	.0	.0	.4	1.7	4.0	3.9	1.6	.1	.1	.0	.0	.0	176	.3	11.4
-17/-19	.0	.1	.5	.9	1.9	1.2	.1	.1	.0	.0	.0	.0	72	.1	4.7
-20/-22	.0	.2	.5	1.0	.5	.5	.1	.0	.0	.0	.0	.0	44	.0	2.9
-23/-25	.0	.2	.1	.2	.3	.4	.1	.0	.0	.0	.0	.0	18	.0	1.2
-26/-30	.1	.1	.2	.3	.2	.1	.0	.0	.0	.0	.0	.0	16	.1	1.0
<-30	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	2	17	27	82	228	407	219	146	48	4	4	1495	29	1466	
PCT	.1	.7	1.8	5.5	15.3	27.2	20.2	14.6	9.8	3.2	1.3	.3	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.9	1.6	.0	.0	.0	2.5	.0	.6	1.1	.0	.0	.0	1.7
3-4	.0	.3	1.6	.5	.0	.0	2.4	.0	.2	1.0	.5	.0	.0	1.7
5-6	.0	.1	1.5	2.0	.0	.0	3.7	.0	.1	.6	.4	.1	.0	1.3
7	.0	.0	.8	1.0	.0	.0	1.8	.0	.0	.0	.2	.0	.0	.2
9-9	.0	.0	.1	.3	.2	.0	.6	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.1	.3	.0	.0	.4	.0	.0	.0	.1	.1	.0	.3
12	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.1	.1	.2	.6	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	6.0	4.8	.5	.2	13.4	.0	1.3	2.8	1.6	.2	.0	6.0

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.1	.0	.0	.0	.6	.1	.5	.1	.0	.0	.0	.7
1-2	.0	.4	.7	.0	.0	.0	1.1	.1	.4	.1	.0	.0	.0	.6
3-4	.0	.1	.6	.2	.0	.0	.9	.0	.2	.4	.3	.0	.0	.8
5-6	.0	.0	.3	.2	.0	.0	.5	.0	.0	.8	.2	.0	.0	1.1
7	.0	.1	.0	.2	.0	.0	.3	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	1.7	.8	.1	.0	3.7	.2	1.1	1.4	1.0	.0	.0	3.8

PERIOD: (OVER-ALL) 1963-1973

DECEMBER
TABLE 18 (CONT)AREA 0025 SOVA STRAIT E
46.1N 145.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.1	.3	.1	.0	.0	.0	.5	.1	1.1	.3	.0	.0	.0	1.5	
1-2	.0	.7	.9	.0	.0	.0	1.6	.0	1.3	1.9	.0	.0	.0	3.2	
3-4	.0	.2	.7	.1	.0	.0	1.0	.0	.9	1.6	.1	.0	.0	2.7	
5-6	.1	.1	.7	.1	.1	.0	1.1	.0	.0	1.4	.2	.1	.0	1.8	
7	.0	.0	.3	.3	.1	.0	.7	.0	.1	.4	.3	.0	.0	.8	
8-9	.0	.0	.1	.3	.0	.0	.4	.0	.0	.4	.1	.0	.0	.6	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.1	.1	.0	.4	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.4	.0	.6	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.1	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.3	2.0	1.0	.2	.0	5.6	.1	3.4	6.4	1.5	.6	.1	12.3	

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.1	.9	.2	.0	.0	.0	1.2	.0	1.1	.1	.0	.0	.0	1.3	
1-2	.0	2.1	3.1	.0	.0	.0	5.2	.1	1.5	2.7	.0	.0	.0	4.3	
3-4	.0	.8	3.1	1.0	.0	.0	4.9	.0	.6	4.0	1.3	.0	.0	5.9	
5-6	.0	.2	2.2	1.5	.1	.0	4.0	.0	.1	2.7	1.7	.0	.0	4.5	
7	.0	.3	3.0	2.2	.7	.0	6.1	.0	.3	1.5	.9	.1	.0	2.8	
8-9	.0	.1	.3	1.4	.1	.1	2.0	.0	.0	.6	.6	.5	.0	1.7	
10-11	.0	.4	1.1	.4	.4	.0	2.3	.0	.5	.3	1.0	.2	.0	1.9	
12	.0	.0	.5	.0	.0	.0	.5	.0	.0	.2	.7	.1	.0	1.0	
13-16	.0	.1	.4	.7	.1	.0	1.3	.0	.0	.2	.4	.1	.1	.9	
17-19	.0	.0	.1	.4	.1	.0	.5	.0	.1	.1	.6	.1	.0	.9	
20-22	.0	.0	.1	.2	.0	.1	.5	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
26-32	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	4.8	14.0	7.8	1.8	.2	28.6	.1	4.2	12.6	7.1	1.2	.2	25.4	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.7	5.3	.9	.0	.0	.0	7.9	
1-2	.2	7.9	12.1	.0	.0	.0	20.3	
3-4	.0	3.3	13.0	4.0	.0	.0	20.3	
5-6	.1	.7	10.3	6.4	.3	.0	17.9	
7	.0	.8	6.0	5.4	.9	.0	13.2	
8-9	.0	.1	1.5	2.9	.9	.1	5.7	
10-11	.0	.8	1.7	2.2	.9	.0	5.7	
12	.0	.0	.9	1.3	.5	.0	2.7	
13-16	.0	.1	.9	1.4	.4	.5	3.3	
17-19	.0	.1	.2	1.3	.4	.0	2.0	
20-22	.0	.0	.1	.6	.0	.1	.8	
23-25	.0	.0	.0	.0	.0	.1	.1	
26-32	.0	.0	.0	.1	.0	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.0	19.2	47.8	25.7	4.5	.8	100.0	848

PERIOD: (OVER-ALL) 1954-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	9.3	10.1	7.0	4.4	1.3	.5	.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	443	4
6-7	.0	.9	2.0	4.5	3.9	2.7	2.1	1.2	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	231	7
8-9	.0	.2	.8	1.3	2.0	1.4	2.0	1.0	2.0	.5	.2	.0	.1	.0	.0	.0	.0	.0	.0	148	9
10-11	.0	.9	.3	.3	1.0	.4	.6	.3	.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	71	9
12-13	.0	.0	.8	.4	.3	.2	.2	.2	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	35	9
>13	.0	.0	.0	.9	.2	.5	.1	.1	.2	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	33	11
INDOT	3.1	4.0	5.2	4.4	3.4	1.6	.9	.6	.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	314	5
TOTAL	55	196	243	240	190	102	84	46	68	32	13	2	2	0	0	0	0	0	0	1275	6
PCT	4.5	15.4	19.2	18.8	14.9	8.0	6.6	3.6	5.3	2.5	1.0	.2	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1859-1974

ANNUAL

AREA 0025 SOYA STRAIT E
43.9N 145.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRYL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.3	.4	2.1	.1	9.8	*	.1	16.7	3.7	.0	11.0	.6	.5	.2	67.5
NE	7.5	.6	3.1	.0	10.9	.0	.2	21.7	4.6	*	12.5	.4	.6	.3	60.0
E	8.6	.5	3.1	.0	10.7	.1	.1	22.5	2.6	.1	13.2	.5	.6	.2	60.4
SE	7.9	.3	2.9	.0	10.2	*	*	20.5	2.7	*	13.8	.4	.4	.3	61.9
S	5.5	.3	1.5	.0	6.3	.2	.2	13.8	2.6	.1	15.2	.7	.4	.2	67.1
SW	2.8	.2	1.0	*	6.1	.1	.1	10.3	2.1	.1	11.9	.3	.5	.3	74.5
W	2.3	.4	.8	*	8.1	.1	.1	11.6	2.5	.1	8.8	.4	.6	.4	75.7
NW	2.0	.3	1.4	*	10.2	.1	*	13.8	3.0	.0	7.7	.6	.4	.4	74.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6	.1	.9	.3	3.4	.0	.2	.5	2.7	.1	16.9	.2	.9	.3	71.5
TOT PCT	4.5	.3	1.7	*	8.9	.1	.1	15.3	3.0	.1	12.0	.4	.5	.3	68.3
TOT OBS: 29969															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRYL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0603	4.0	.3	1.6	.1	9.4	*	.2	15.3	2.6	*	12.7	.4	.5	.2	68.2
0809	4.1	.3	1.5	*	8.2	.1	.1	14.1	3.1	*	11.4	.5	.3	.5	70.0
12015	5.4	.4	1.9	.1	9.4	.1	.1	17.1	3.3	.2	11.0	.5	.6	.3	67.0
18021	4.6	.4	1.9	.0	8.6	*	*	15.3	3.8	.2	12.8	.4	.4	.4	66.8
TOT PCT	4.5	.4	1.7	.1	9.0	.1	.1	15.5	3.1	.1	12.0	.4	.5	.3	68.1
TOT OBS: 31550															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	4.1	4.2	1.6	.3	*		11.0	13.4		11.6	10.3	10.7	10.5	10.3	9.3	11.2	13.2
NE	.8	4.2	3.4	1.3	.2	*		9.9	13.0		8.9	13.1	8.7	11.3	10.0	11.3	9.3	10.9
E	.9	4.1	3.0	.7	.1	*		8.9	11.9		8.6	11.8	9.0	8.5	8.3	9.3	7.8	11.0
SE	.7	4.5	3.2	.9	.1	.0		9.5	12.1		9.9	10.1	9.6	9.9	9.6	9.7	7.8	10.0
S	.9	5.1	4.1	.8	.1	.0		11.0	11.8		12.2	10.2	10.6	12.1	10.9	12.4	9.7	11.2
SW	1.0	5.7	5.1	1.2	.2	*		13.1	12.0		17.6	12.2	12.5	15.6	12.2	15.0	13.1	13.7
W	.6	5.2	6.4	2.3	.4	*		15.0	13.4		13.0	15.6	16.4	14.8	15.5	14.1	16.4	13.5
NW	.6	4.9	7.0	3.1	.6	*		16.3	14.2		16.6	15.2	17.4	14.6	16.5	16.4	17.0	14.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.2							5.2	.0		6.7	1.5	5.0	2.7	6.7	2.3	7.9	2.6
TOT OBS							27809		12.6		5800	2687	5015	1961	5358	1646	3622	1720
TOT PCT	11.5	37.8	36.6	12.0	2.0	.2	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	03	06	12
N	2.6	4.6	2.7	.8	.1			11.0	13.4		11.2	10.6	10.3	11.6
NE	2.8	4.2	2.3	.5	.1			9.9	13.0		10.3	9.3	10.3	9.7
E	2.9	3.9	1.8	.3	*			8.9	11.9		9.6	8.7	8.3	8.4
SE	3.0	4.3	1.8	.4	*			9.5	12.1		9.9	9.7	9.4	8.5
S	3.3	5.2	2.2	.3	*			11.0	11.8		11.5	11.0	11.1	10.2
SW	3.6	6.3	2.8	.4	.1			13.1	12.0		12.6	13.5	13.1	13.4
W	2.8	6.7	4.3	1.1	.2			13.0	13.4		13.9	16.0	15.2	15.7
NW	2.6	7.0	5.0	1.6	.2			16.3	14.2		16.1	16.6	16.6	16.2
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	5.2							5.2	.0		5.0	4.3	5.7	8.3
TOT OBS						27809			12.6		8487	6976	7004	5342
TOT PCT	28.9	42.3	22.8	5.4	.7	100.0					100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1859-1974

ANNUAL

AREA 0025 SOVA STRAIT E
45.9N 145.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	5.0	6.8	38.8	36.3	11.1	1.8	.2	12.3	100.0	8487
0600	4.3	5.6	35.8	38.4	13.2	2.4	.2	13.2	100.0	6976
1200	5.7	5.2	39.0	35.5	12.3	2.0	.2	12.5	100.0	7004
1800	6.3	7.2	36.9	35.9	11.7	1.9	.1	12.2	100.0	5342
TOT								12.6		27809
PCT	5.2	6.2	37.8	36.6	12.0	2.0	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	1.2	3.4	4.7		0.0
NE	1.0	.6	2.0	5.3		0.4
E	1.0	.3	1.4	5.9		0.5
SE	1.2	.6	1.9	5.6		0.5
S	2.5	1.1	2.3	5.3		5.7
SW	3.3	1.7	3.3	3.9		5.0
W	3.3	2.1	5.2	4.3		5.0
NW	2.8	2.5	6.3	5.8		5.5
VAR	.0	.0	.0	.0		.0
CALM	1.9	.6	1.2	3.0		4.8
TOT OBS					19314	9.7
TOT PCT	18.4	10.7	27.1	43.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.2	.1	.2	.5	2.1	2.6	.6	.1	.1	.1	3.3	
NE	1.6	.1	.2	.4	1.7	1.9	.5	.1	.1	.1	2.0	
E	1.7	.0	.2	.5	1.6	2.0	.5	.1	.1	.1	1.8	
SE	1.9	.0	.2	.4	1.5	1.9	.7	.1	.1	.1	2.3	
S	2.1	.0	.2	.3	1.3	1.9	.7	.1	.2	.2	4.3	
SW	1.5	.0	.1	.3	1.3	1.9	.7	.2	.2	.2	5.8	
W	1.2	.1	.2	.5	2.4	2.9	.8	.2	.1	.2	6.3	
NW	1.6	.1	.2	.8	2.7	4.0	1.1	.3	.2	.2	6.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	.0	.1	.2	.6	1.0	.4	.1	.1	.1	2.7	
TOT OBS											19314	
TOT PCT	14.4	.5	1.5	3.9	15.0	20.0	6.1	1.3	1.2	1.3	34.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR >4500	1.4	2.2	2.4	2.4	2.5	2.5	2.5	2.5
OR >3000	2.0	3.2	3.6	3.6	3.7	3.8	3.8	3.8
OR >1500	5.5	8.3	9.2	9.4	9.6	9.7	9.8	9.8
OR >7000	15.1	24.5	28.1	29.0	29.5	29.8	30.0	30.0
OR >1000	20.0	34.4	40.7	42.6	43.8	44.5	44.9	44.9
OR >600	21.0	36.8	43.9	46.1	47.5	48.3	48.7	48.7
OR >300	21.2	37.6	45.1	47.4	48.9	49.7	50.2	50.2
OR >150	21.3	37.8	45.4	47.8	49.3	50.1	50.6	50.7
OR > 0	21.7	39.5	49.2	53.2	56.2	59.3	64.5	65.3

TOTAL NUMBER OF OBS: 20157

PCT FREQ NM <5/8: 34.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
12.4	3.6	6.7	5.9	5.5	6.0	8.7	9.0	28.7	13.5
									21699

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1859-1974

ANNUAL

AREA 0025 SOVA STRAIT E
45.9N 145.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.3	.3	.2	.2	.2	.4	.4	.0	.1	2.5	
	NN PCP	.9	.8	.9	1.1	1.3	.9	.4	.3	.0	.9	7.1	
	TOT %	.8	1.1	1.2	1.3	1.5	1.1	.8	.8	.0	.9	9.6	
1/2<1	PCP	.3	.3	.2	.2	.1	.3	.5	.5	.0	.1	2.1	
	NN PCP	.1	.2	.1	.1	.2	.1	.1	.1	.0	.1	1.3	
	TOT %	.4	.4	.3	.3	.3	.3	.5	.6	.0	.2	3.4	
1<2	PCP	.4	.4	.4	.3	.2	.2	.3	.6	.0	.1	2.9	
	NN PCP	.2	.2	.2	.2	.2	.2	.1	.2	.0	.1	1.5	
	TOT %	.6	.6	.6	.4	.4	.3	.5	.8	.0	.1	4.4	
2<5	PCP	.5	.7	.5	.5	.3	.3	.5	.9	.0	.1	4.1	
	NN PCP	.6	.6	.6	.7	.7	.7	.8	1.1	.0	.4	6.2	
	TOT %	1.2	1.3	1.0	1.1	1.0	1.0	1.2	2.0	.0	.4	10.3	
5<10	PCP	.4	.3	.4	.4	.3	.3	.5	.5	.0	.1	3.1	
	NN PCP	2.4	2.1	1.8	2.1	2.4	2.6	3.1	3.6	.0	.9	21.1	
	TOT %	2.8	2.3	2.2	2.5	2.7	2.9	3.5	4.1	.0	1.0	24.2	
10+	PCP	.1	.1	.1	.1	.1	.1	.1	.2	.0	*	.9	
	NN PCP	4.9	3.8	3.5	3.8	5.1	7.1	8.2	8.1	.0	2.8	47.2	
	TOT %	5.0	3.8	3.6	3.8	5.2	7.2	8.4	8.3	.0	2.8	48.1	
TOT OBS		29883											
TOT PCT		10.8	9.8	9.0	9.5	11.1	12.8	14.9	16.5	.0	5.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.2	.2	.1	.1	.1	.1	.1	.0	.9	1.8	
	4-10	.3	.6	.7	.7	.8	.7	.4	.3	.0		4.5	
	11-21	.3	.3	.4	.4	.5	.4	.2	.3	.0		2.7	
	22+	.2	.2	.1	.1	.1	.1	.2	.2	.0		1.3	
	TOT %	.9	1.2	1.4	1.4	1.5	1.3	.9	.8	.0	.9	10.3	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	.2	.3	
	4-10	.1	.2	.2	.2	.2	.1	.1	.1	.0		1.1	
	11-21	.1	.2	.1	.1	.1	.1	.2	.3	.0		1.3	
	22+	.1	.1	.1	.1	*	*	.2	.3	.0		.8	
	TOT %	.4	.5	.4	.3	.3	.3	.5	.7	.0	.2	3.6	
1<2	0-3	*	*	*	*	*	.1	*	*	.0	.1	.4	
	4-10	.2	.3	.3	.2	.2	.2	.1	.2	.0		1.7	
	11-21	.2	.3	.2	.2	.2	.1	.2	.4	.0		1.8	
	22+	.2	.1	.1	.1	.1	.1	.2	.3	.0		1.1	
	TOT %	.6	.7	.6	.5	.5	.5	.6	.8	.0	.1	5.0	
2<5	0-3	.1	.1	*	.1	.1	.1	*	.1	.0	.4	1.0	
	4-10	.4	.5	.5	.5	.5	.5	.4	.5	.0		3.7	
	11-21	.5	.6	.5	.4	.4	.5	.6	.9	.0		4.5	
	22+	.3	.3	.2	.3	.1	.1	.4	.7	.0		2.2	
	TOT %	1.3	1.5	1.1	1.2	1.1	1.2	1.4	2.1	.0	.4	11.3	
5<10	0-3	.1	.1	.1	.2	.2	.2	.1	.1	.0	1.0	2.1	
	4-10	.8	.9	.8	1.0	1.1	1.1	1.0	1.0	.0		7.9	
	11-21	1.1	.9	.8	.8	1.0	1.2	1.3	1.8	.0		9.2	
	22+	.7	.5	.2	.3	.3	.4	.8	1.0	.0		4.1	
	TOT %	2.8	2.4	2.0	2.3	2.6	2.9	3.5	3.9	.0	1.0	23.3	
10+	0-3	.4	.4	.5	.3	.4	.5	.3	.3	.0	2.6	5.8	
	4-10	2.2	1.8	1.7	1.9	2.4	3.1	3.2	2.9	.0		19.1	
	11-21	1.8	1.2	1.1	1.2	1.9	2.7	3.7	3.5	.0		17.0	
	22+	.5	.3	.2	.2	.3	.6	1.2	1.3	.0		4.6	
	TOT %	4.9	3.6	3.4	3.7	5.0	6.9	8.3	8.0	.0	2.6	46.4	
TOT OBS		27174											
TOT PCT		11.0	10.0	8.9	9.5	11.0	13.1	15.1	16.4	.0	5.2	100.0	

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1859-1974

ANNUAL

AREA 0025 SOYA STRAIT E
45.9N 145.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	12.1	.5	1.8	4.3	16.2	22.0	6.5	1.2	1.3	1.5	67.5	32.5	6751
06009	10.7	.5	1.9	4.2	16.4	21.2	6.9	1.4	1.2	1.3	65.8	34.2	5713
12015	18.5	.4	1.1	3.2	11.6	16.8	4.8	1.4	1.2	1.2	60.2	39.8	5007
18021	19.7	.3	.8	2.7	12.7	17.6	4.7	.7	.6	1.1	61.0	39.0	3342
TOT													20813
PCT	14.4	.4	1.5	3.8	14.7	19.9	5.9	1.2	1.2	1.3	64.4	35.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	10.5	3.4	5.1	10.6	20.6	49.7	10074
06009	8.5	3.8	4.6	10.4	23.1	49.6	8386
12015	10.8	3.6	5.9	13.6	25.5	40.9	8304
18021	11.9	3.8	5.2	12.3	25.8	41.1	6307
TOT							33071
PCT	10.4	3.6	5.1	11.6	23.4	45.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL
(GMT)						OBS
00003	12.2	18.0	32.7	37.9	29.5	6593
06009	10.8	15.7	28.5	40.0	31.5	5563
12015	19.0	23.7	37.4	26.8	35.8	4795
18021	20.3	24.4	36.8	28.5	34.8	3206
TOT						20157
PCT	14.7	19.7	33.4	34.4	32.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.1	.4	.0	.0	.0	.1	.1
70/74	.1	.0	.0	.0	.1	.1	.0	.0	.2	.2
65/69	.1	.2	.1	.0	.0	.2	.3	.0	1.2	1.2
60/64	.0	.6	.0	.0	.2	.7	1.6	2.4	5.6	5.6
55/59	.0	.2	.7	.2	.4	1.4	2.3	4.4	9.6	9.6
50/54	.0	.0	.4	.8	.9	2.1	3.4	5.3	12.9	12.9
45/49	.0	.0	.0	.4	1.7	2.7	2.7	4.9	12.5	12.5
40/44	.0	.0	.2	.5	1.2	2.6	1.7	4.2	10.4	10.4
35/39	.0	.1	.0	.3	1.3	2.9	3.7	4.8	13.2	13.2
30/34	.0	.1	.0	.3	1.0	1.2	3.3	5.6	11.5	11.5
25/29	.0	.1	.1	.3	1.2	1.3	2.0	4.3	9.4	9.4
20/24	.0	.0	.0	.6	1.0	1.5	1.8	2.6	7.5	7.5
15/19	.0	.0	.0	.0	1.0	1.1	2.1	1.1	5.3	5.3
10/14	.0	.0	.0	.0	.0	.2	.1	.1	.4	.4
5/9	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1
TOTAL									2457	100.0
PCT	.1	1.3	1.5	3.3	10.4	18.3	25.1	40.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.0	.0	.0	.0	.0	.1
70/74	.0	.0	.0	.1	.1	.1	.0	.0	.0
65/69	.1	.2	.2	.2	.1	.2	.1	.1	.1
60/64	.3	.5	.5	.8	.9	1.0	.8	.5	.4
55/59	.4	.9	1.2	1.6	2.2	1.4	.9	.6	.4
50/54	1.2	1.3	1.5	1.3	1.9	1.8	1.3	1.7	.8
45/49	1.2	.9	1.6	1.3	1.6	1.4	1.7	2.0	.8
40/44	.6	.6	1.1	1.3	1.7	1.5	1.6	1.6	.4
35/39	1.4	1.2	1.3	1.2	1.5	1.9	1.6	2.4	.6
30/34	1.2	1.7	1.2	1.1	.7	1.0	2.1	2.3	.3
25/29	1.6	.7	.6	.5	.4	.6	2.4	2.4	.2
20/24	1.6	.5	.1	.1	.2	.3	2.2	2.5	.0
15/19	1.3	.4	.3	.0	.1	.1	.7	2.0	.4
10/14	.1	.1	.0	.0	.0	.0	.0	.0	.2
5/9	.1	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	11.0	9.0	9.6	9.5	11.2	11.4	15.7	18.0	4.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	82	58	53	42	31	25	0	47.7	9928
06009	85	58	53	42	32	26	3	48.9	8235
12015	82	55	50	40	30	25	1	46.5	8221
18021	82	55	49	40	30	24	1	46.0	6287
TOT	85	57	52	41	30	25	0	47.4	32671

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.2	5.8	11.1	20.9	25.8	36.1	82	793
06009	.2	7.5	10.8	16.7	25.0	39.8	83	718
12015	.0	9.0	9.8	15.0	28.9	37.4	83	519
18021	.1	3.1	10.2	17.0	21.9	47.7	85	485
TOT	5	173	237	426	579	1095	83	2515

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1859-1974

ANNUAL

TABLE 17

AREA 0025 SOVA STRAIT E
45.9N 145.3E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	23 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	NO FOG
>30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	*
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	.0	*
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	179	.1	.3
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	343	.2	.6
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.2	.2	.2	.3	.2	.2	.1	.1	.1	.1	737	.4	1.5
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.4	.3	.3	.3	.4	.2	.1	.1	.1	.1	.1	859	.4	1.9
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.6	.6	.3	.4	.5	.5	.2	.1	.1	.1	.1	.1	1275	.8	2.8
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2	.2	.2	.2	.2	.1	.1	.1	.1	.1	.1	.1	509	.3	1.1
5	.0	.0	.0	.0	.0	.0	.0	.0	.2	.8	.7	.6	.4	.6	.6	.6	.2	.1	.1	.1	.1	.1	1607	.9	3.8
4	.0	.0	.0	.0	.0	.0	.0	.1	.6	.9	.7	.8	.7	.6	.7	.8	.3	.1	.1	.1	.1	.1	2105	1.3	4.9
3	.0	.0	.0	.0	.0	.0	.0	.4	.5	.3	.3	.3	.3	.3	.4	.3	.1	.1	.1	.1	.1	.1	934	.5	2.3
2	.0	.0	.0	.0	.0	.0	.4	1.0	1.2	.7	1.1	.9	.9	.9	.9	.9	.2	.1	.1	.1	.1	.1	2782	1.6	6.6
1	.0	.0	.0	.0	.0	.0	.2	.5	.5	.4	.4	.3	.5	.4	.3	.1	.1	.1	.1	.1	.1	.1	1221	.5	3.1
0	.0	.0	.0	.0	.0	.2	1.1	1.5	1.1	.7	1.3	.9	1.1	.9	.9	.9	.1	.1	.1	.1	.1	.1	3174	1.6	8.4
-1	.0	.0	.0	.0	.0	.1	.6	.5	.4	.3	.4	.5	.4	.3	.2	.1	.1	.1	.1	.1	.1	.1	1099	.4	3.3
-2	.0	.0	.0	.0	.0	.8	1.2	1.0	.6	.5	.9	.8	.8	.6	.4	.1	.1	.1	.1	.1	.1	.1	2211	.9	6.8
-3	.0	.0	.0	.0	.0	.2	.6	.4	.3	.2	.3	.3	.4	.2	.1	.1	.1	.1	.1	.1	.1	.1	882	.2	2.9
-4	.0	.0	.0	.0	.0	1.0	1.3	.7	.5	.4	.6	.5	.5	.3	.2	.1	.1	.1	.1	.1	.1	.1	1565	.6	5.4
-5	.0	.0	.0	.0	.0	.2	1.3	1.1	.6	.5	.4	.5	.3	.3	.2	.1	.1	.1	.1	.1	.1	.1	1279	.4	5.1
-6	.0	.0	.0	.0	.0	.1	.7	.6	.2	.1	.1	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	513	.1	2.3
-7/-8	.0	.0	.0	.0	.0	.8	1.9	1.0	.5	.4	.3	.3	.2	.2	.1	.1	.1	.1	.1	.1	.1	.1	1216	.3	5.4
-9/-10	.0	.0	.0	.0	.2	1.0	1.6	.7	.4	.3	.2	.3	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	965	.2	4.8
-11/-13	.0	.0	.0	.1	.7	1.7	1.6	.8	.4	.3	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	1079	.2	5.9
-14/-16	.0	.0	.0	.5	.9	1.0	.8	.4	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	674	.1	3.9
-17/-19	.0	.0	.3	.2	.5	.4	.3	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	306	.0	1.8
-20/-22	.0	.1	.3	.3	.2	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	213	.0	1.4
-23/-25	.0	.1	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	87	.0	.6
-26/-30	.1	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	66	.0	.5
<-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	.0	.1
TOTAL																							28046		
PCT	.1	.3	.9	1.3	2.6	5.4	10.7	10.4	9.5	9.2	7.2	9.7	7.7	8.1	6.9	6.3	2.2	1.0	.4	.1	*	*	100.0	12.1	87.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.1	.0	.0	.0	1.4	<1	.2	1.1	.1	.0	.0	.0	1.4
1-2	.1	1.4	1.2	.0	.0	.0	2.7	1-2	.1	1.3	1.0	.0	.0	.0	2.3
3-4	.0	.4	1.3	.3	.0	.0	2.1	3-4	.0	.4	1.2	.2	.0	.0	1.8
5-6	.0	.1	1.0	.5	.0	.0	1.6	5-6	.0	.2	.9	.4	.0	.0	1.4
7	.0	.1	.6	.5	.1	.0	1.2	7	.0	.3	.4	.0	.0	.0	.8
8-9	.0	.0	.2	.2	.0	.0	.5	8-9	.0	.0	.1	.3	.1	.0	.5
10-11	.0	.0	.1	.2	.1	.0	.5	10-11	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.1	.0	.0	.0	.1	12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.1	.1	.0	.0	.3	13-16	.0	.0	.1	.1	.0	.0	.1
17-19	.0	.0	.0	.1	.0	.0	.1	17-19	.0	.0	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.1	4.7	2.0	.4	.1	10.6	TOT PCT	.4	3.0	3.8	1.5	.2	.0	8.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.1	.0	.0	.0	1.6	<1	.2	1.4	.1	.0	.0	.0	1.7
1-2	.1	1.4	1.1	.0	.0	.0	2.5	1-2	.1	1.5	1.4	.0	.0	.0	3.0
3-4	.0	.4	1.0	.2	.0	.0	1.6	3-4	.0	.5	1.6	.3	.0	.0	2.3
5-6	.0	.1	.6	.2	.0	.0	.9	5-6	.0	.2	.7	.3	.0	.0	1.1
7	.0	.1	.4	.2	.0	.0	.6	7	.0	.3	.3	.0	.0	.0	.7
8-9	.0	.0	.1	.1	.1	.0	.3	8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.1	.0	.0	.2	10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.1	12	.0	.0	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.1	13-16	.0	.0	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.4	3.5	.9	.2	.0	8.2	TOT PCT	.4	3.6	4.3	1.2	.1	.0	9.6

PERIOD: (OVER-ALL) 1963-1974

ANNUAL
TABLE 18 (CONT)AREA 0025 SOYA STRAIT E
45.9N 145.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.4	.2	.0	.0	.0	1.8	.2	1.4	.1	.0	.0	.0	1.8
1-2	.1	1.8	1.9	.0	.0	.0	3.8	.2	2.0	1.9	.0	.0	.0	4.1
3-4	*	.5	1.9	.3	.0	.0	2.7	*	.6	2.0	.2	.0	.0	2.9
5-6	*	.2	.5	.2	*	.0	1.3	*	.1	1.1	.3	*	.0	1.6
7	*	.1	.3	.3	*	.0	.8	.0	.1	.4	.2	*	.0	.8
8-9	.0	*	.2	.2	*	.0	.4	.0	*	.2	.2	*	.0	.4
10-11	.0	*	*	.1	*	.0	.2	.0	*	.1	.1	*	.0	.2
12	.0	.0	*	*	.0	.0	.1	.0	.0	*	*	*	.0	.1
13-16	.0	.0	*	*	*	.0	.1	.0	.0	.1	.1	*	*	.2
17-19	.0	.0	*	.0	*	.0	*	.0	.0	.1	.1	*	.0	.2
20-22	.0	.0	*	.0	*	.0	*	.0	.0	.0	*	*	.0	*
23-25	.0	.0	*	.0	.0	.0	*	.0	.0	.0	*	*	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.0	5.5	1.1	.2	.0	11.1	.4	4.4	6.1	1.3	.2	*	12.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.2	.3	.0	.0	.0	1.6	.2	1.5	.2	.0	.0	.0	1.9	
1-2	.1	1.8	1.7	.0	.0	.0	3.6	.1	1.6	2.3	.0	.0	.0	4.0	
3-4	*	.6	2.2	.6	.0	.0	3.4	*	.5	2.5	1.0	.0	.0	4.0	
5-6	.0	.2	1.5	.5	.1	.0	2.3	.0	.3	1.4	1.0	.1	.0	2.8	
7	.0	.1	.9	.6	.1	.0	1.8	*	.1	1.1	.7	.1	.0	1.9	
8-9	.0	*	.2	.4	.1	.0	.8	.0	*	.3	.5	.2	.0	1.0	
10-11	.0	*	.3	.2	.1	*	.6	.0	*	.2	.4	.1	*	.7	
12	.0	.0	.1	.1	*	.0	.2	.0	.0	.1	.1	.1	*	.3	
13-16	*	*	.1	.2	.1	*	.3	*	*	.1	.2	.1	*	.3	
17-19	.0	*	*	.1	*	.0	.2	.0	*	*	.1	.1	.0	.3	
20-22	.0	.0	*	*	*	.0	.1	.0	.0	.0	.1	*	*	.1	
23-25	.0	.0	.0	.0	*	.0	*	.0	.0	.0	*	*	*	*	
26-32	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	.0	*	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.0	7.3	2.8	.5	.1	14.9	.3	4.1	8.1	4.1	.8	*	17.4	93.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.5	10.4	1.2	.0	.0	.0	20.2	
1-2	.8	12.8	12.5	.0	.0	.0	26.1	
3-4	.1	4.0	13.7	3.1	.0	.0	20.9	
5-6	*	1.3	8.1	3.3	.3	.0	13.1	
7	*	.6	4.3	3.2	.5	*	8.6	
8-9	*	.1	1.4	2.0	.5	.1	4.1	
10-11	*	.1	.9	1.4	.4	*	2.9	
12	.0	*	.4	.5	.2	*	1.1	
13-16	*	*	.4	.7	.3	.1	1.6	
17-19	.0	*	.1	.5	.2	.0	.9	
20-22	.0	.0	*	.2	.1	*	.3	
23-25	.0	.0	*	*	*	*	*	
26-32	.0	.0	.0	*	*	.0	*	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.5	29.6	43.1	15.1	2.5	.2	100.0	15457

PERIOD: (OVER-ALL) 1954-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	13.0	12.4	7.0	3.6	1.2	.6	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8275	4
6-7	*	1.8	3.6	4.5	3.7	2.3	1.5	.6	.4	.1	*	*	*	.0	.0	.0	.0	.0	.0	3578	6
8-9	*	.5	1.2	1.4	1.5	1.0	1.0	.6	.9	.4	.1	*	*	.0	.0	.0	.0	.0	.0	1576	7
10-11	.0	1.4	.5	.5	.6	.5	.4	.3	.4	.3	.1	*	*	.0	.0	.0	.0	.0	.0	950	6
12-13	.0	.0	1.0	.4	.3	.2	.2	.1	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	483	7
>13	.0	.0	.0	.3	.2	.1	.1	.1	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	267	10
INDBT	9.8	4.3	4.1	2.6	1.5	.7	.6	.2	.3	.1	.1	*	*	.0	.0	.0	.0	.0	.0	5262	3
TOTAL																				20391	4
PCT	10.9	21.0	22.7	16.9	11.4	6.1	4.4	2.0	2.7	1.2	.5	.2	.1	.0	.0	.0	.0	.0	.0	100.0	

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	10	.1
75/76	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	13	.1
73/74	.0	.0	.0	.0	.0	.0	.1	.3	.1	.0	.0	.0	26	.1
71/72	.0	.0	.0	.0	.0	.0	.1	.5	.4	.2	.0	.0	55	.2
69/70	.0	.0	.0	.0	.0	.0	.1	1.5	.7	.2	.0	.0	113	.4
67/68	.0	.0	.0	.0	.0	.0	.3	2.5	1.3	.2	.0	.0	197	.6
65/66	.0	.0	.0	.0	.0	.1	1.1	4.7	3.0	.1	.0	.0	402	1.3
63/64	.0	.0	.0	.0	.0	.3	3.9	13.1	13.3	1.3	.1	.0	1369	4.5
61/62	.0	.0	.0	.0	.0	.3	4.8	14.4	13.7	2.1	.2	.0	1514	5.0
59/60	.0	.0	.0	.0	.0	.5	6.4	13.2	13.0	4.0	.1	.0	1560	5.1
57/58	.0	.0	.0	.0	.1	1.6	9.6	12.4	16.4	8.0	.5	.0	1964	6.4
55/56	.0	.0	.0	.0	.1	2.8	11.0	10.8	13.0	12.0	.8	.0	2005	6.6
53/54	.0	.0	.0	.0	.1	4.2	13.3	9.6	10.4	13.7	1.7	.3	2150	7.0
51/52	.0	.0	.0	.8	.3	5.2	11.7	5.8	5.5	15.4	2.1	.4	1764	5.8
49/50	.0	.0	.0	.1	1.3	8.9	12.1	5.6	4.4	14.0	6.6	.4	1983	6.5
47/48	.4	.0	.3	1.7	2.6	11.3	10.0	2.5	2.1	10.5	8.7	1.1	1765	5.8
45/46	.6	1.2	1.2	1.3	6.4	22.2	9.7	1.6	1.7	10.7	21.4	6.3	2673	8.8
43/44	3.1	.6	.9	1.7	6.9	12.7	3.2	.4	.3	2.9	16.0	8.0	1576	5.2
41/42	2.8	1.7	2.4	3.1	10.3	9.9	1.5	.4	.1	1.4	13.8	8.7	1409	4.6
39/40	5.7	2.7	2.2	7.6	17.5	9.3	.6	.1	.2	.8	11.9	12.3	1593	5.2
37/38	19.0	7.5	4.2	13.6	20.5	5.6	.2	.3	.0	.4	7.8	20.3	1791	5.9
35/36	20.9	22.8	12.4	21.6	17.9	2.9	.2	.0	.0	.2	4.1	17.3	1664	5.5
33/34	19.4	22.2	21.0	22.8	10.9	1.1	.0	.0	.0	.0	2.8	11.2	1306	4.3
31/32	13.0	16.2	23.7	19.1	4.2	.9	.0	.0	.0	.0	1.3	8.9	903	3.0
29/30	9.9	14.5	24.1	6.1	.7	.0	.0	.0	.0	.0	.2	3.4	501	1.6
27/28	4.8	10.4	7.5	.3	.0	.0	.0	.0	.0	.0	.0	1.2	192	.6
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1364	517	667	858	2687	4248	4066	5016	3736	3246	2531	1568	30504	100.0
MEAN	34.9	33.4	32.8	35.4	38.5	45.1	52.7	58.0	57.7	51.7	43.1	37.6	43.4	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MC	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL DBS
JAN	1011	1010	1010	1011	1011	1011	1010	1009	1011	1596
FEB	1012	1008	1009	1008	1011	1007	1011	1008	1010	607
MAR	1014	1010	1013	1011	1014	1011	1012	1012	1013	862
APR	1012	1012	1011	1009	1010	1012	1011	1016	1011	1385
MAY	1013	1009	1012	1009	1012	1009	1012	1010	1011	3021
JUN	1012	1009	1011	1008	1011	1008	1011	1009	1011	4360
JUL	1011	1009	1011	1008	1011	1008	1010	1009	1010	4186
AUG	1011	1010	1011	1010	1012	1009	1011	1009	1011	5211
SEP	1013	1012	1014	1012	1015	1012	1014	1012	1014	3810
OCT	1013	1014	1015	1013	1016	1013	1015	1014	1015	3404
NOV	1012	1011	1011	1013	1011	1011	1013	1013	1012	2675
DEC	1009	1009	1009	1011	1010	1014	1009	1007	1009	1725
ANA	1012	1010	1011	1010	1012	1010	1012	1010	1011	32842
DBS	7345	2620	6349	1931	6670	1634	4614	1679		

PERCENTILES

MC	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	982	986	995	1004	1011	1017	1025	1030	1033
FEB	982	986	993	1003	1011	1017	1024	1030	1034
MAR	981	988	994	1008	1013	1018	1025	1032	1037
APR	980	984	993	1005	1011	1017	1027	1031	1037
MAY	983	990	997	1006	1011	1017	1024	1030	1038
JUN	985	994	1001	1006	1010	1015	1021	1026	1034
JUL	985	990	999	1006	1010	1014	1020	1024	1032
AUG	986	994	1000	1007	1011	1015	1021	1025	1036
SEP	983	994	1001	1009	1014	1018	1026	1031	1039
OCT	977	991	999	1010	1016	1020	1027	1031	1038
NOV	975	984	992	1005	1013	1018	1027	1032	1039
DEC	974	979	988	1002	1009	1017	1026	1033	1039

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1934-1974

JANUARY

AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	24.6	.0	1.4	26.5	10.1	.0	1.2	.0	.6	.6	61.1
NE	1.2	1.2	2.3	.0	19.3	.0	.0	21.8	11.7	.0	2.3	.0	.6	.3	63.2
E	5.3	.0	2.3	.0	31.6	.0	.0	36.1	3.0	.0	.0	3.0	2.3	.0	55.6
SE	8.1	.0	1.6	.0	16.1	.0	.0	19.4	27.4	.0	12.9	.0	.0	.0	40.3
S	.0	.0	3.2	.0	8.1	.0	.0	11.3	21.0	.0	.0	.0	.0	.0	67.7
SW	2.5	.0	.0	.0	19.7	.0	.0	22.3	8.3	.0	3.2	.0	.0	2.5	63.7
W	.7	.0	.5	.0	20.9	.0	.0	22.1	15.8	.4	1.2	.0	.5	.7	59.6
NW	1.5	.0	.3	.0	35.0	.0	.1	36.9	14.6	.8	1.3	.0	.1	.5	46.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.9	.0	.0	.0	11.8	.0	.0	17.6	5.9	.0	.0	.0	.0	5.9	70.6
TOT PCT	1.5	.1	.9	.0	25.0	.0	.3	27.2	13.1	.3	1.6	.1	.4	.7	56.7
TOT OBS:	688														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	1.0	.0	.5	.0	28.8	.0	.0	29.8	12.1	.5	1.0	.0	.5	2.0	54.5
0600	.5	.0	1.3	.0	25.6	.0	1.0	28.1	16.3	.0	1.5	.5	.5	.5	52.7
1200	2.8	.6	.6	.0	22.8	.0	.0	26.1	13.3	.0	1.7	.0	.6	.0	58.3
1800	1.3	.0	.7	.0	22.8	.0	.0	24.2	10.7	.7	2.0	.0	.0	.0	62.4
TOT PCT	1.4	.1	.8	.0	25.2	.0	.3	27.3	13.3	.3	1.5	.1	.4	.7	56.6
TOT OBS:	730														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	4.0	7.5	7.9	.9	.0		20.3	19.8		22.8	18.3	18.4	6.9	21.7	12.5	22.0	16.7
NE	.0	1.7	5.3	3.6	.8	.2		11.7	19.9		10.8	5.0	10.5	5.6	18.0	3.6	10.6	8.3
E	.0	1.0	1.8	2.2	.2	.0		5.3	20.3		3.5	.0	7.5	5.6	5.3	.0	6.9	.0
SE	.0	1.1	.7	.4	.0	.0		2.2	14.4		3.1	13.3	1.1	5.6	2.4	.0	.2	4.2
S	.0	1.9	1.0	.3	.2	.0		3.5	13.6		2.2	.0	7.7	.0	4.4	.0	.0	4.2
SW	.0	1.9	1.3	.8	.2	.0		4.2	16.0		2.8	.0	7.0	1.4	3.9	.0	5.0	.0
W	.0	2.9	10.4	6.1	2.1	.4		22.1	21.2		26.0	35.0	18.6	36.1	18.9	25.0	18.1	45.8
NW	.2	3.7	11.5	9.6	2.8	.0		27.7	21.3		25.6	28.3	26.1	33.3	23.7	51.8	33.2	21.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0							3.0	.0		3.1	.0	3.0	5.6	1.8	7.1	4.0	.0
TOT OBS	17	98	213	165	38	3	534		19.5		127	15	133	18	114	14	101	12
TOT PCT	3.2	18.4	39.9	30.9	7.1	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+						00	03	06	09	12	15	18	21
N	1.1	6.9	7.3	4.9	.2			20.3	19.8		22.4	17.1	20.7	21.5				
NE	.1	4.8	4.4	2.2	.2			11.7	19.9		10.2	9.9	16.4	10.4				
E	.0	2.2	2.2	.7	.2			5.3	20.3		3.2	7.3	4.7	6.2				
SE	.2	1.0	1.0	.0	.0			2.2	14.4		4.2	1.7	2.1	.7				
S	.3	2.2	.5	.4	.0			3.5	13.6		1.9	6.8	3.9	.4				
SW	.6	1.9	1.0	.6	.2			4.2	16.0		2.5	6.3	3.5	4.4				
W	1.6	6.6	9.0	3.1	1.9			22.1	21.2		26.9	20.7	19.5	21.0				
NW	.9	8.1	12.1	5.6	.9			27.7	21.3		25.9	27.0	26.8	31.9				
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0				
CALM	3.0							3.0	.0		2.8	3.3	2.3	3.5				
TOT OBS	42	180	200	93	19	534			19.5		142	151	128	113				
TOT PCT	7.9	33.7	37.5	17.4	3.6			100.0			100.0	100.0	100.0	100.0				

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1934-1974

JANUARY

AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.8	.0	16.9	40.8	34.5	4.9	.0	19.5	100.0	142
0600	3.3	.7	16.6	39.1	31.8	8.6	.0	20.0	100.0	151
1215	2.3	.0	20.3	42.2	25.0	9.4	.8	19.3	100.0	128
1821	3.5	.0	20.4	37.2	31.9	5.3	1.8	18.9	100.0	113
TOT	16	1	98	213	165	38	3	19.5		534
PCT	3.0	.2	18.4	39.9	30.9	7.1	.6	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.3	.9	8.1	8.9		6.8
NE	.8	.6	6.2	5.2		6.8
E	.1	.5	1.5	3.2		6.8
SE	.0	.2	.4	1.7		7.1
S	.3	.2	1.5	2.5		6.6
SW	.4	.7	2.7	2.8		6.3
W	1.3	2.1	10.9	5.1		6.0
NW	.9	2.3	13.0	12.9		6.6
VAR	.0	.0	.0	.0		.0
CALM	.2	.7	1.2	.7		5.6
TOT OBS	20	47	264	250	581	6.5
TOT PCT	3.4	8.1	45.4	43.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
.7	.0	1.5	1.2	2.9	6.9	2.1	.1	.2	.2	2.4		
.7	.2	.3	1.3	3.0	4.1	.6	.3	.2	.2	1.0		
.9	.0	.2	.1	.9	1.5	.3	.0	.2	.0	1.1		
.4	.0	.0	.0	.7	.7	.2	.0	.0	.0	.2		
.1	.2	.2	.3	1.3	1.2	.3	.0	.0	.2	.8		
.5	.2	.2	.2	2.2	1.4	.2	.0	.3	.0	1.5		
1.2	.2	.8	1.8	4.5	6.1	.8	.2	.1	.0	3.8		
4.4	.0	.6	2.1	8.6	6.2	1.5	.4	.8	.0	5.2		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.5	.0	.0	.0	.2	.5	.2	.0	.2	.0	1.2		
55	4	22	41	141	166	36	6	7	3	100		581
9.5	.7	3.8	7.1	24.3	28.6	6.2	1.0	1.2	.5	17.2	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.0	1.5	1.7	1.7	1.7	1.7	1.7	1.7
>5000	1.5	2.2	2.7	2.7	2.7	2.7	2.7	2.7
>3500	4.2	7.2	8.2	8.8	8.8	8.8	8.8	8.8
>2000	17.8	27.6	32.6	34.8	36.8	36.8	36.9	36.9
>1000	24.8	40.1	50.9	54.9	58.7	60.2	61.6	61.6
>600	26.5	44.1	56.1	61.6	65.7	67.4	68.7	68.7
>300	28.0	46.6	59.4	64.9	69.7	71.4	72.7	72.7
>150	28.0	46.8	60.1	65.6	70.4	72.0	73.4	73.4
>0	28.1	48.4	63.6	70.2	76.7	79.4	82.2	82.7
TOTAL	169	291	382	422	461	477	494	497

TOTAL NUMBER OF OBS: 601 PCT FREQ NM <5/8: 17.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.8	.8	3.4	5.2	6.0	11.0	15.6	14.5	33.2	653

P. RIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1934-1974

JANUARY

AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.8	.9	.5	.4	.1	.1	.4	3.0	.0	.1	6.4	
	NO PCP	.3	.1	.0	.3	.1	.0	.1	.1	.0	.0	1.2	
	TOT %	1.1	1.0	.5	.7	.3	.1	.5	3.2	.0	.1	7.5	
1/2<1	PCP	.6	.8	.5	.0	.0	.4	1.3	1.8	.0	.1	5.2	
	NO PCP	.1	.3	.1	.0	.3	.2	.3	.2	.0	.0	1.4	
	TOT %	.7	1.1	.7	.0	.3	.2	1.6	2.0	.0	.1	6.7	
1<2	PCP	.9	.6	.1	.0	.1	.2	.6	1.3	.0	.0	3.9	
	NO PCP	.3	.1	.1	.3	.1	.1	.8	1.0	.0	.0	2.9	
	TOT %	1.2	.7	.3	.3	.3	.3	1.4	2.3	.0	.0	6.8	
2<5	PCP	1.0	.8	.3	.0	.0	.4	1.2	2.6	.0	.1	5.8	
	NO PCP	1.5	1.1	.7	.8	.8	1.5	2.0	3.3	.0	.1	11.0	
	TOT %	2.5	1.2	.9	.8	.8	1.9	3.2	5.9	.0	.3	16.8	
5<10	PCP	1.2	.3	.4	.1	.0	.4	1.0	1.9	.0	.0	5.2	
	NO PCP	5.3	2.7	.8	.8	1.0	.5	4.8	5.0	.0	.3	20.4	
	TOT %	6.4	3.0	1.2	.1	1.0	.9	5.8	6.9	.0	.3	25.6	
10+	PCP	.4	.1	.0	.0	.1	.1	.1	.2	.0	.0	1.2	
	NO PCP	6.3	4.7	1.4	1.2	1.6	2.1	8.2	8.4	.0	1.6	35.5	
	TOT %	6.7	4.9	1.4	1.2	1.7	2.2	8.3	8.6	.0	1.6	36.6	
TOT OBS													691
TOT PCT		18.6	11.9	5.0	2.2	4.4	5.8	20.7	28.9	.0	2.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.1	.0	.0	.8	.1	.2	.0	.8	.0	.0	.6	
	11-21	.3	.0	.3	.2	.0	.0	.4	1.3	.0	.0	2.7	
	22+	.3	1.0	.2	.4	.0	.0	.2	1.6	.0	.0	3.6	
	TOT %	.8	1.0	.5	.7	.1	.2	.6	3.0	.0	.2	7.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.6	
	11-21	.3	.4	.2	.0	.0	.8	1.1	.3	.0	.0	2.3	
	22+	.1	.9	.5	.0	.0	.2	1.1	1.1	.0	.0	3.8	
	TOT %	.6	1.3	.7	.0	.2	.3	2.1	1.5	.0	.4	7.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.2	.0	.0	.2	.2	.0	.0	.8	
	11-21	.0	.0	.0	.2	.0	.2	.4	.9	.0	.0	1.7	
	22+	.8	.4	.4	.0	.2	.0	.8	1.1	.0	.0	3.6	
	TOT %	.9	.4	.4	.4	.2	.2	1.4	2.2	.0	.0	6.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.4	
	4-10	.2	.4	.4	.1	.4	.4	.1	.2	.0	.0	2.3	
	11-21	.5	.9	.5	.0	.1	.2	1.3	1.4	.0	.0	5.0	
	22+	2.1	.8	.2	.0	.0	.4	1.7	3.2	.0	.0	7.6	
	TOT %	2.8	1.3	1.1	.1	.6	1.1	3.2	5.0	.0	.2	13.3	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
	4-10	1.1	.4	.3	.0	.2	.8	.3	1.0	.0	.0	3.4	
	11-21	2.8	1.1	.4	.1	.0	.2	2.9	3.6	.0	.0	11.1	
	22+	3.0	1.2	.6	.8	.1	.2	2.3	2.5	.0	.0	9.9	
	TOT %	7.0	2.7	1.3	.1	.3	.4	5.3	7.1	.0	.6	25.0	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.7	
	4-10	2.3	1.0	.3	.8	1.0	1.1	2.2	1.9	.0	.0	10.5	
	11-21	3.5	2.9	.5	.2	.9	.7	4.6	3.9	.0	.0	17.2	
	22+	2.2	1.1	.6	.0	.2	.2	7.5	3.2	.0	.0	9.9	
	TOT %	8.0	4.9	1.5	1.0	2.1	2.0	9.2	9.0	.0	1.7	39.4	
TOT OBS													923
TOT PCT		20.2	11.5	5.4	2.3	3.5	4.1	22.0	27.8	.0	3.1	100.0	

JANUARY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1934-1974AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	6.9	.0	3.2	8.0	28.2	25.9	8.0	.6	1.1	.0	83.9	16.1	174
06009	9.0	.5	4.8	6.9	23.4	31.4	6.4	1.1	.5	.5	84.6	15.4	188
12015	11.5	1.4	4.3	9.4	21.6	25.9	4.3	.7	1.4	.7	81.3	18.7	139
18021	11.3	.9	.0	3.5	21.7	27.0	5.2	1.7	2.6	.9	74.8	25.2	115
TOT	98	4	24	44	148	171	38	6	8	3	504	112	616
PCT	9.4	.6	3.9	7.1	24.0	27.8	6.2	1.0	1.3	.5	81.8	18.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	6.9	8.4	6.4	14.4	25.7	38.1	202
06009	8.2	7.7	8.7	13.9	19.7	41.8	208
12015	7.1	6.0	7.7	19.1	33.3	26.8	183
18021	6.8	3.7	6.2	23.0	25.5	34.8	161
TOT	55	50	55	130	195	269	754
PCT	7.3	6.6	7.3	17.2	25.9	35.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	6.5	21.4	42.3	43.5	14.3	168
06009	8.7	21.7	47.3	39.7	13.0	184
12015	11.8	26.5	49.3	37.5	13.2	136
18021	11.5	15.9	39.8	38.9	21.2	113
TOT	56	130	270	241	90	601
PCT	9.3	21.6	44.9	40.1	15.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.0	.7	1.3	2.7	2.0	4.7	17	11.3
30/34	.0	.0	.0	.7	4.7	7.3	10.0	22.7	68	43.3
25/29	.0	.0	.0	.0	8.7	5.3	2.0	9.3	35	23.3
20/24	.0	.0	.0	.0	2.0	3.3	5.3	8.7	29	19.3
15/19	.0	.0	.0	.0	.0	.0	.0	.7	1	.7
TOTAL	0	0	0	2	22	28	29	69	150	100.0
PCT	.0	.0	.0	1.3	14.7	18.7	19.3	46.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
2.3	.2	2.0	1.3	1.2	1.5	2.5	.3	.0	.0
8.0	10.5	2.5	.7	2.3	4.0	6.7	6.7	.0	2.0
4.8	1.3	.0	1.3	2.8	2.5	3.5	7.0	.0	.0
.0	1.3	.0	.2	1.2	.2	7.7	8.8	.0	.0
.5	.0	.0	.0	.0	.0	.0	.2	.0	.0
15.7	13.3	4.5	3.5	7.5	8.2	22.3	23.0	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	44	38	36	28	16	7	6	27.5	203
06009	45	43	37	28	18	14	12	28.4	206
12015	45	39	36	28	17	10	7	27.8	184
18021	41	40	36	27	16	3	3	26.4	157
TOT	45	41	36	28	17	9	3	27.6	750

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	13.6	22.7	13.6	50.0	86	44		
06009	.0	2.3	16.3	14.0	20.9	46.5	85	43		
12015	.0	2.7	13.5	13.5	24.3	45.9	85	37		
18021	.0	.0	16.1	22.6	22.6	38.7	85	31		
TOT	0	2	23	28	31	71	85	155		

JANUARY

PERIOD: (PRIMARY) 1969-1974
(OVER-ALL) 1934-1974AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	N FOG	NO FOG
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	5	.0	.7
4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.3	5	.0	.7
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	2	.0	.3
2	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.0	11	.0	1.6
1	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0	8	.0	1.2
0	.0	.0	.0	.0	.0	.0	.3	1.2	3.6	.3	.0	36	.0	5.3
-1	.0	.0	.0	.0	.0	.0	.0	.3	1.8	.3	.0	16	.0	2.4
-2	.0	.0	.0	.0	.0	.0	.4	2.7	3.0	.3	.0	43	.1	6.2
-3	.0	.0	.0	.0	.0	.0	.3	3.6	2.2	.1	.0	42	.3	5.9
-4	.0	.0	.0	.0	.0	.0	.3	5.5	1.2	.0	.0	47	.0	7.0
-5	.0	.0	.0	.0	.0	.3	2.7	4.5	1.8	.1	.0	63	.1	9.2
-6	.0	.0	.0	.0	.0	.0	1.0	2.2	.1	.0	.0	23	.0	3.4
-7/-8	.0	.0	.0	.0	.0	.4	7.0	3.3	.4	.0	.0	75	.0	11.1
-9/-10	.0	.0	.0	.0	.0	2.8	5.2	1.2	.0	.0	.0	62	.1	9.1
-11/-13	.0	.0	.0	.0	.4	7.0	6.8	.4	.0	.0	.0	99	.4	14.2
-14/-16	.0	.0	.0	.7	2.5	5.0	1.9	.3	.0	.0	.0	71	.3	10.2
-17/-19	.0	.0	.0	1.3	2.8	1.6	.1	.1	.0	.0	.0	41	.0	6.1
-20/-22	.0	.0	.0	1.0	.4	.4	.3	.0	.0	.0	.0	15	.0	2.2
-23/-25	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	3	.0	.4
-26/-30	.0	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	5	.0	.7
<-30	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	?	2	3	23	43	119	178	170	105	23	6	674	10	664
PCT	.3	.3	.4	3.4	6.4	17.7	26.4	25.2	15.6	3.4	.9	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
1-2	.0	1.8	.8	.0	.0	.0	2.7	.0	.4	1.6	.0	.0	.0	2.0
3-4	.0	1.0	3.2	.9	.0	.0	5.1	.0	.1	1.2	.1	.0	.0	1.4
5-6	.0	.4	1.9	1.9	.0	.0	4.2	.0	.1	1.7	.6	.0	.0	2.4
7	.0	.5	.5	1.5	.2	.0	2.6	.0	.0	1.4	.6	.3	.0	2.2
8-9	.0	.0	.0	1.6	.2	.0	1.7	.0	.0	.0	.5	.1	.0	.5
10-11	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	1.4	.3	.0	1.7
12	.0	.0	.0	.6	.2	.0	.6	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.0	.2	1.4	.5	.0	2.1	.0	.0	.1	1.2	.3	.3	1.7
17-19	.0	.0	.3	.0	.2	.0	.5	.0	.0	.3	.0	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	6.8	8.7	1.2	.0	20.4	.0	.6	6.3	4.7	1.1	.3	13.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.3	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.2	.4	.3	.0	.0	.8	.0	.0	.3	.1	.0	.0	.3
5-6	.0	.0	.2	1.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.5	.8	.0	.0	1.3	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.3	.3	.0	.5	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.3	.2	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	2.3	2.8	.3	.0	6.2	.0	.9	.4	.3	.0	.0	1.6

PERIOD: (OVER-ALL) 1963-1974

JANUARY

TABLE 18 (CONT)

AREA 0026 URUP ISLAND
46.2N 151.2E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	.8	.0	.0	.0	.0	.8	
1-2	.0	.5	.2	.0	.0	.0	.6	.0	.2	.6	.0	.0	.0	.8	
3-4	.0	.3	.5	.2	.0	.0	1.0	.0	.3	.3	.0	.0	.0	.6	
5-6	.0	.0	.5	.3	.0	.0	.5	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.3	.3	.0	.0	.5	.0	.0	.0	.3	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.6	1.4	.5	.0	.0	3.5	.0	1.2	1.0	.8	.0	.0	3.0	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.5	
1-2	.0	.9	1.0	.0	.0	.0	1.9	.0	1.2	1.7	.0	.0	.0	2.8	
3-4	.0	.5	2.7	.2	.0	.0	3.4	.0	.8	3.0	.6	.0	.0	4.5	
5-6	.0	.2	1.9	1.1	.0	.0	3.2	.0	.4	2.5	2.7	.3	.0	5.8	
7	.0	.0	2.3	.2	.3	.0	2.7	.0	.6	2.7	2.7	1.1	.0	7.0	
8-9	.0	.0	1.0	1.9	.0	.0	2.9	.0	.0	1.0	1.7	.3	.0	3.0	
10-11	.0	.0	.2	1.4	.0	.0	1.6	.0	.0	.1	1.1	.5	.0	1.7	
12	.0	.0	.3	.5	.4	.0	1.2	.0	.0	.0	.6	.6	.0	1.3	
13-16	.0	.0	.0	.2	.3	.5	.5	.0	.0	.0	.8	1.0	.0	1.7	
17-19	.0	.0	.0	.0	.3	.3	.3	.0	.0	.0	.3	.1	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.8	.3	1.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.1	9.7	5.6	2.6	.5	20.5	.0	3.5	11.1	10.4	3.9	.0	28.9	97.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	3.9	.0	.0	.0	.0	6.5	
1-2	.0	5.4	6.0	.0	.0	.0	11.4	
3-4	.3	3.1	11.7	2.3	.0	.0	17.4	
5-6	.0	1.0	8.8	7.3	.3	.0	17.4	
7	.0	1.0	7.8	5.4	1.8	.0	16.1	
8-9	.0	.0	2.6	7.0	.5	.0	10.1	
10-11	.0	.0	.3	5.2	1.0	.0	6.5	
12	.0	.0	.5	2.3	1.6	.0	4.4	
13-16	.0	.0	.8	4.1	2.1	.3	7.3	
17-19	.0	.0	.5	.3	.5	.3	1.6	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.3	.0	.3	
26-32	.0	.0	.0	.0	.8	.3	1.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.8	14.5	38.9	33.9	9.1	.8	100.0	386

PERIOD: (OVER-ALL) 1953-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	3.1	7.0	7.5	4.7	1.6	1.0	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	161	5
6-7	.0	.6	2.4	4.9	4.9	4.9	1.9	1.5	2.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	149	8
8-9	.0	.3	1.5	1.9	2.9	1.5	3.4	2.1	3.9	.8	.3	.2	.0	.0	.0	.0	.0	.0	.0	116	10
10-11	.0	.2	.5	.2	.8	1.3	1.6	.5	1.6	.6	.2	.2	.6	.0	.0	.0	.0	.0	.0	51	12
12-13	.0	.0	.6	.3	.0	.2	1.0	.6	.8	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	26	11
>13	.0	.0	.0	.3	.5	.5	.0	.0	.2	.0	.2	.5	.2	.0	.0	.0	.0	.0	.0	14	13
INDEX	1.5	1.8	2.9	2.1	2.3	1.0	2.4	.6	1.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	99	6
TOTAL	9	37	92	106	99	67	70	38	67	13	6	6	6	0	0	0	0	0	0	616	8
PCT	1.5	6.0	14.9	17.2	16.1	10.9	11.4	6.2	10.9	2.1	1.0	1.0	1.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1899-1974

FEBRUARY

AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	30.2	.0	.0	30.2	9.3	.0	.9	.0	.7	.0	58.9
NE	.6	.0	.0	.0	29.3	.0	.0	29.3	12.8	.0	.0	.0	2.4	2.4	50.6
E	4.5	.0	.0	.0	26.9	3.0	.0	32.1	6.0	.0	.0	.0	.0	.0	61.9
SE	.8	3.4	.0	3.4	16.0	.0	.0	20.2	8.4	.0	4.2	.0	.0	.0	67.2
S	3.6	.0	.0	.0	19.6	.0	.0	19.6	12.5	.0	6.3	.0	.0	3.6	58.0
SW	.0	.0	.0	.0	14.1	.0	.0	14.1	7.8	.0	3.9	.0	.0	.0	74.1
W	.5	.0	.0	.0	39.2	.0	.0	39.7	7.7	.0	1.5	.8	.0	.0	50.3
NW	.8	.4	.0	.8	39.6	.4	.0	41.5	9.6	.0	2.7	.2	.5	.4	45.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	33.3	.0	.0	33.3	.0	.0	.0	.0	.0	.0	66.7
TOT PCT	.8	.3	.0	.4	33.5	.3	.0	34.7	8.9	.0	2.1	.4	.4	.4	53.0
TOT OBS:	749														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZ	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	2.2	.4	.0	.4	31.4	.4	.0	34.1	10.5	.0	2.6	.9	.0	.4	51.5
0600	.9	.4	.0	.4	36.6	.0	.0	37.5	10.3	.0	2.7	.9	.4	.0	68.2
1200	.5	.0	.0	.0	32.1	.0	.0	32.7	9.7	.0	3.1	.0	.0	1.0	53.6
1800	.0	.0	.0	.7	32.2	.7	.0	33.6	7.2	.0	.0	.0	1.3	.0	57.9
TOT PCT TOT OBS:	1.0 801	.2	.0	.4	33.2	.2	.0	34.6	9.6	.0	2.2	.5	.4	.4	52.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.0	2.2	7.2	5.5	1.0	.0		15.9	20.1	16.6	19.6	12.8	22.2	16.7	10.0	17.0	25.0
NE	.0	1.4	1.8	2.2	.4	.0		5.8	19.1	2.4	16.1	7.0	.0	7.3	.0	6.1	12.5
E	.0	.4	2.0	1.3	.6	.3		4.8	23.6	6.0	8.9	4.5	22.2	3.2	.0	3.9	.0
SE	.0	.3	1.9	1.4	.2	.0		3.8	20.4	4.8	3.6	5.5	11.1	3.2	.0	.9	.0
S	.1	1.0	1.9	1.0	.2	.1		3.8	19.1	2.6	7.1	3.8	.0	4.1	.0	5.5	.0
SW	.3	1.0	3.2	3.1	.2	.0		7.8	18.7	4.1	7.1	5.3	5.6	9.0	20.0	12.7	50.0
W	.0	1.0	12.7	10.2	2.0	.3		26.2	22.8	27.1	14.3	33.8	16.7	23.2	40.0	20.9	.0
NW	.0	2.2	11.9	14.5	2.6	.2		31.3	23.4	36.4	23.2	27.2	22.2	32.6	30.0	31.1	12.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5							.5	.0	.0	.0	.0	.0	.7	.0	1.8	.0
TOT OBS	6	54	244	227	41	6	578		21.7	145	14	150	9	141	5	110	4
TOT PCT	1.0	9.3	42.2	39.3	7.1	1.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	1.3	4.4	7.0	3.2	.0	15.9	20.1	16.6	13.4	16.4	17.3		
NE	1.0	1.6	2.0	1.0	.2	5.8	19.1	3.6	6.6	7.0	6.4		
E	.3	1.1	2.1	.9	.3	4.8	23.6	6.3	5.5	3.1	3.7		
SE	.3	1.5	1.1	1.0	.0	3.8	20.4	4.7	5.8	3.1	.9		
S	.1	1.7	1.3	.6	.1	3.8	19.1	3.0	3.6	3.9	5.3		
SW	.9	1.9	4.1	1.0	.0	7.8	18.7	4.4	5.3	9.4	14.0		
W	.3	5.3	14.1	5.4	1.0	26.2	22.8	25.9	32.9	23.8	20.2		
NW	.6	6.4	14.4	9.0	.9	31.3	23.4	35.2	26.9	32.5	30.5		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.5					.5	.0	.0	.0	.7	1.8		
TOT OBS	31	138	266	128	15	578	21.7	159	159	146	114		
TOT PCT	5.4	23.9	46.0	22.1	2.6	100.0		100.0	100.0	100.0	100.0		

FEBRUARY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1899-1974

AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4R+	MEAN	PCT FREQ	TOTAL OPS
				11-21	22-33	34-47				
0000Z	.0	.0	7.5	42.8	41.5	7.5	.6	22.1	100.0	139
0600Z	.0	.6	5.7	37.1	45.9	8.2	2.3	23.7	100.0	139
1200Z	.7	1.4	11.0	45.9	33.6	6.8	.7	20.5	100.0	146
1800Z	1.8	.0	14.9	43.9	34.2	5.3	.0	19.8	100.0	114
TOT	3	3	54	244	227	41	6	21.7		578
PCT	.5	.5	9.3	42.2	39.3	7.1	1.0	100.0		

TABLE 4

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS'D	TOTAL OBS	MEAN CLOUD COVER
N	.9	.8	6.4	5.6		6.3
NE	.5	.7	1.1	3.1		6.5
E	.0	.3	.9	3.2		7.3
SE	.0	.2	.6	2.8		7.3
S	.0	.4	1.2	2.5		6.8
SW	1.0	.6	3.0	2.1		5.6
W	.9	2.1	13.4	8.7		6.4
NW	1.8	2.8	15.6	19.2		6.5
VAR	.0	.0	.0	.0		.0
CALM	.2	.2	.3	.3		5.1
TOT OBS	32	48	259	261	599	6.5
TOT PCT	5.3	8.0	43.1	43.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3000	5000	6000	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	1.7	.4	.7	.1	3.0	4.3	.8	.3	.0	.3	2.1	
NE	.1	.0	.0	.8	.8	1.5	.4	.2	.0	.0	1.6	
E	.5	.0	.3	.3	.5	2.1	.5	.0	.0	.0	.3	
SE	1.0	.0	.3	.2	.6	.6	.0	.0	.0	.0	.4	
S	.4	.0	.0	.2	.7	1.0	.5	.2	.2	.0	1.0	
SW	.6	.0	.2	.2	1.0	1.7	.9	.0	.0	.2	2.1	
W	3.5	.3	.5	1.8	5.8	6.3	1.6	.7	.2	.0	4.7	
NW	4.9	.3	.8	1.9	10.1	7.5	2.5	1.2	.0	.0	6.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.3	
TOT OBS	77	6	16	32	135	152	48	15	2	3	113	599
TOT PCT	12.9	1.0	2.7	5.3	22.5	25.4	8.0	2.5	.3	.5	18.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.3	.6	.8	.8	.8	.8	.8	.8
>4000	.8	1.9	2.6	3.2	3.7	3.7	3.7	3.7
>3500	4.3	7.0	9.3	10.4	11.0	11.3	11.3	11.3
>2000	12.6	22.2	30.0	31.9	34.8	35.6	36.1	36.3
>1000	16.5	30.2	43.9	48.9	53.4	56.5	58.1	58.5
>600	18.1	33.2	48.4	53.5	58.1	61.5	63.3	63.6
>300	18.7	34.5	50.5	55.8	60.7	64.2	66.5	66.8
>150	19.0	35.0	51.3	56.7	61.7	65.2	67.4	67.7
>0	19.2	36.3	55.4	63.7	70.4	76.2	81.3	81.6
TOTAL	120	227	347	399	441	477	509	511

TOTAL NUMBER OF OBS: 626

PCT FREQ NM <5/8: 18.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBS'D	TOTAL OBS
1.8	1.3	4.9	4.4	6.1	9.0	14.7	15.3	31.0	11.5	720

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1899-1974

FEBRUARY

AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.2	.1	.4	.3	.1	.4	1.8	3.0	.0	.1	7.3	
	NO PCP	.0	.1	.0	.3	.3	.1	.5	1.1	.0	.0	2.4	
	TOT %	1.2	.3	.4	.6	.4	.6	2.3	4.1	.0	.1	9.9	
1/2<1	PCP	.9	.8	.1	.2	.0	*	1.1	3.0	.0	.0	6.2	
	NO PCP	.4	.2	.1	*	.1	.0	.2	.4	.0	.0	1.5	
	TOT %	1.3	1.0	.2	.2	.1	*	1.3	3.5	.0	.0	7.6	
1<2	PCP	.5	.3	.4	.3	.1	.2	1.7	3.4	.0	.0	6.8	
	NO PCP	.5	.0	.0	.0	.1	.0	.4	.9	.0	.1	2.0	
	TOT %	1.0	.3	.4	.3	.2	.2	2.0	4.3	.0	.1	8.8	
2<5	PCP	.9	.5	.5	*	.6	.4	4.0	4.2	.0	.0	11.1	
	NO PCP	.9	.7	.5	.5	.4	.3	2.0	2.5	.0	.3	8.6	
	TOT %	1.9	1.2	1.0	.6	1.0	.7	6.0	6.7	.0	.3	19.3	
5<10	PCP	.6	.0	.1	.0	.0	.0	1.3	.8	.0	.0	2.8	
	NO PCP	2.5	1.4	1.5	.8	.9	1.9	5.6	6.9	.0	.0	21.4	
	TOT %	3.1	1.4	1.6	.8	.9	1.9	6.9	7.6	.0	.0	24.3	
10+	PCP	.1	.0	.0	.1	.0	.0	.1	*	.0	.1	.5	
	NO PCP	5.7	1.4	1.0	1.6	1.2	3.6	6.6	8.3	.0	.1	29.5	
	TOT %	5.8	1.4	1.0	1.7	1.2	3.6	6.7	8.3	.0	.3	30.0	
TOT OBS													746
TOT PCT		14.2	5.6	4.5	4.1	3.9	7.0	25.3	34.5	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	11-21	.1	.0	.0	.2	.1	.4	.7	.5	.0	.0	2.1	
	22+	1.2	.3	.5	.4	.0	*	1.5	2.9	.0	.0	6.7	
	TOT %	1.3	.3	.5	.6	.1	.5	2.2	3.6	.0	.2	9.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	11-21	.3	.4	.0	.2	.1	.0	.8	.3	.0	.0	2.1	
	22+	1.0	.7	.1	*	.0	*	.5	2.0	.0	.0	4.4	
	TOT %	1.3	1.1	.1	.3	.1	*	1.5	2.3	.0	.0	6.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.2	.2	.4	.0	.0	.7	
	11-21	.3	.2	.3	.2	.0	*	.8	1.3	.0	.0	3.2	
	22+	.4	.0	.2	.0	.2	*	.9	1.4	.0	.0	3.0	
	TOT %	.7	.2	.5	.2	.2	.3	1.9	3.0	.0	.0	6.9	
2<5	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	4-10	.4	*	.1	*	.2	.0	.1	.3	.0	.0	1.2	
	11-21	1.3	.6	.3	*	.4	*	2.8	3.5	.0	.0	8.9	
	22+	.6	.6	.7	.3	.6	.4	2.5	3.1	.0	.0	8.7	
	TOT %	2.3	1.3	1.1	.4	1.2	.6	5.4	6.8	.0	.0	19.0	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.5	.2	*	.5	.2	.1	.6	.0	.0	2.3	
	11-21	2.3	.3	.7	.2	.6	.7	3.3	2.7	.0	.0	10.8	
	22+	1.6	.6	.5	.2	.0	1.3	4.2	4.7	.0	.0	13.1	
	TOT %	4.1	1.4	1.4	.4	1.1	2.1	7.8	7.9	.0	.0	26.3	
10+	0-3	.0	.0	.0	*	.1	.2	.0	.0	.0	.4	.7	
	4-10	1.6	.7	.1	.2	.3	.3	.4	.8	.0	.0	4.4	
	11-21	2.9	.4	.8	1.0	.3	2.1	4.1	3.9	.0	.0	15.5	
	22+	1.8	.4	.4	.5	.5	1.6	3.0	3.0	.0	.0	11.2	
	TOT %	6.3	1.5	1.3	1.7	1.3	4.1	7.5	7.7	.0	.4	31.8	
TOT OBS													563
TOT PCT		16.0	5.8	4.9	3.6	4.0	7.7	26.2	31.3	.0	.5	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1899-1974AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL OBS	NH <5/8 ANY HGT	TOTAL OBS
00003	11.4	1.5	4.0	5.9	26.2	23.3	9.9	3.0	.5	.5	86.1	13.9	202
06009	11.4	1.5	3.5	6.9	24.3	26.2	6.9	3.0	.0	.0	83.7	16.3	202
12015	19.0	.0	1.4	2.0	17.7	19.0	7.5	2.0	.7	.7	70.1	29.9	147
18021	13.5	.0	2.9	2.9	17.3	28.8	3.8	2.9	.0	1.0	73.1	26.9	104
TOT	88	6	20	32	146	158	49	18	2	5	522	133	655
PCT	13.4	.9	3.1	4.9	22.3	24.1	7.5	2.7	.3	.5	79.7	20.3	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	9.5	7.4	9.9	20.3	23.8	29.4	231
06009	10.6	8.8	7.5	19.8	23.3	30.0	227
12015	13.3	5.6	9.2	21.0	23.6	27.2	195
18021	9.9	6.6	9.2	16.4	26.3	31.6	152
TOT	87	58	71	158	194	237	805
PCT	10.8	7.2	8.8	19.6	24.1	29.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	12.3	28.2	55.9	33.8	10.3	195
06009	11.9	29.0	54.9	32.6	12.4	193
12015	19.6	29.7	55.8	21.0	23.2	138
18021	15.0	30.0	47.0	31.0	22.0	100
TOT	89	182	339	189	98	626
PCT	14.2	29.1	54.2	30.2	15.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.0	.0	.0	.0	2.7	.9	4	3.6
30/34	.0	.0	.0	.0	2.7	3.6	5.4	14.3	30	26.8
25/29	.0	.0	.0	.0	.0	1.8	2.7	17.0	24	21.4
20/24	.0	.0	.0	1.8	.0	7.1	8.9	12.5	34	30.4
15/19	.0	.0	.0	.0	1.8	3.6	3.6	7.1	18	16.1
10/14	.0	.0	.0	.0	.0	.0	.0	1.8	2	1.8
TOTAL	0	0	0	9	5	18	26	60	112	100.0
PCT	.0	.0	.0	2.7	4.5	16.1	23.2	53.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
35/39	.0	.2	.7	.9	.0	1.8	.0	.0	.0	.0
30/34	3.8	4.0	3.3	6.3	2.5	1.6	4.5	.9	.0	.0
25/29	2.2	2.9	2.5	2.7	1.8	.0	4.2	5.1	.0	.0
20/24	2.0	.4	.7	.9	.0	.9	10.0	15.4	.0	.0
15/19	.7	.0	.0	.0	.0	.0	3.1	12.3	.0	.0
10/14	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0
TOTAL	8.7	7.6	7.1	10.7	4.2	4.2	21.9	35.5	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	39	37	34	25	10	3	3	24.2	224
06009	39	36	34	25	12	5	0	24.3	215
12015	42	36	32	23	19	5	5	23.7	194
18021	41	36	32	24	12	5	5	23.6	151
TOT	42	36	34	24	12	5	0	24.0	784

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.4	6.9	10.3	20.7	58.6	88	29		
06009	.0	5.1	2.6	17.9	17.9	56.4	89	39		
12015	.0	.0	3.7	14.8	25.9	55.6	90	27		
18021	.0	.0	5.6	22.2	33.3	38.9	87	18		
TOT	0	3	5	18	26	61	89	113		

FEBRUARY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1899-1974

TABLE 17

AREA 0026 URUP ISLAND
46.2N 151.3EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	N FOG	WD FOG
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.3
4	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	2	.0	.3
3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	3	.1	.3
2	.0	.0	.0	.0	.0	.0	.0	.0	.8	.3	.1	9	.1	1.1
1	.0	.0	.0	.0	.0	.0	.0	.4	.8	.0	.0	9	.1	1.1
0	.0	.0	.0	.0	.0	.0	2.5	1.1	.0	.0	.0	26	.1	3.5
-1	.0	.0	.0	.0	.0	.0	.0	1.7	.8	.1	.0	19	.0	2.6
-2	.0	.0	.0	.0	.0	.0	.1	3.5	.3	.0	.0	28	.0	3.9
-3	.0	.0	.0	.0	.0	.0	.1	2.0	.8	.0	.0	21	.1	2.8
-4	.0	.0	.0	.0	.0	.0	1.5	3.9	.0	.0	.0	39	.1	5.3
-5	.0	.0	.0	.0	.0	.0	2.5	2.4	.4	.0	.0	38	.0	5.3
-6	.0	.0	.0	.0	.0	.0	2.5	.8	.0	.0	.0	24	.0	3.3
-7/-8	.0	.0	.0	.0	.0	.0	2.1	6.3	1.7	.0	.0	72	.1	9.9
-9/-10	.0	.0	.0	.0	.4	3.9	5.0	1.0	.0	.0	.0	74	.1	10.2
-11/-13	.0	.0	.0	.1	4.5	11.2	3.3	.4	.0	.0	.0	140	.7	18.8
-14/-16	.0	.0	.0	.1	5.2	4.0	.7	.1	.0	.0	.0	73	.0	10.2
-17/-19	.0	.0	.6	3.6	2.9	.7	.3	.0	.0	.0	.0	58	.3	7.8
-20/-22	.0	.0	1.1	2.2	.7	.4	.1	.0	.0	.0	.0	33	.1	4.5
-23/-25	.0	1.0	.7	1.1	.4	.1	.0	.0	.0	.0	.0	24	.1	3.2
-26/-30	.0	1.0	1.0	.1	.1	.1	.0	.0	.0	.0	.0	17	.0	2.4
<-30	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.7
TOTAL	3	15	23	53	102	162	162	146	41	6	2	717	17	700
PCT	.4	2.1	3.5	7.4	14.2	22.6	22.6	20.4	5.7	.8	.3	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.4	.0	.0	.0	.0	.4	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.5	.8	.0	.0	.0	1.3	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.2	1.9	.2	.0	.0	2.3	.0	.2	.8	.0	.0	.0	1.0
5-6	.0	.0	2.5	.9	.0	.0	3.4	.0	.0	.3	.0	.0	.0	.3
7	.0	.2	1.4	1.5	.2	.0	3.4	.0	.0	.2	1.1	.2	.0	1.6
8-9	.0	.2	.4	.8	.2	.0	1.6	.0	.0	.1	.3	.0	.0	.4
10-11	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.2	.0	.2	.0	.5	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	1.2	.2	.0	1.4	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.1	.2	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	7.1	5.9	1.1	.0	15.6	.0	.6	1.4	2.3	.5	.0	4.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.4	.0	.0	.0	.0	.4	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.2	.5	.0	.0	.0	.7	.0	.1	.2	.0	.0	.0	.3
3-4	.0	.0	.7	.0	.0	.0	.7	.0	.0	.8	.2	.0	.0	1.0
5-6	.0	.0	.4	.2	.2	.0	.8	.0	.0	.4	.0	.1	.0	.4
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.4	.6	.0	.0	1.0	.0	.0	.1	.4	.0	.0	.5
10-11	.0	.0	.0	.2	.2	.0	.5	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.2	.4	.0	.7	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	2.2	1.8	.8	.0	5.2	.0	.1	1.6	1.3	.1	.0	3.1

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY
TABLE 18 (CONT)AREA 0026 URUP ISLAND
46.2N 151.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.2	.0	.0	.0	.0		.2	.0	.0	.0	.0	.0	.0		.2
1-2	.0	.4	.2	.0	.0	.0		.6	.0	.2	.5	.0	.0	.0		.8
3-4	.0	.0	.7	.2	.0	.0		.9	.0	.2	.5	.5	.0	.0		1.2
5-6	.0	.0	.4	.0	.0	.0		.4	.0	.0	.8	.8	.0	.0		1.6
7	.0	.0	.8	.5	.0	.0		1.3	.0	.0	.5	.5	.0	.0		1.0
8-9	.0	.0	.0	.0	.0	.0		.0	.2	.0	.2	1.0	.0	.0		1.5
10-11	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.1	.0	.0		.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.3	.0	.0		.3
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.2	.0	.0		.2
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	.7	2.0	.7	.2	.0		3.7	.5	.5	2.6	3.4	.0	.0		6.9

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.0	.3	.0	.0	.0	.0		.3
1-2	.0	.0	1.4	.0	.0	.0		1.4	.0	.0	1.4	1.0	.0	.0		1.4
3-4	.0	.4	3.0	.6	.0	.0		4.0	.0	1.3	3.1	1.3	.0	.0		5.6
5-6	.0	.0	4.0	3.9	.4	.0		8.3	.0	.0	2.9	3.3	.5	.0		6.7
7	.0	.2	3.0	1.6	.5	.2		5.6	.0	.0	2.3	4.2	.0	.0		6.5
8-9	.0	.0	.7	2.6	.7	.0		4.0	.0	.0	.6	2.4	.3	.0		3.3
10-11	.0	.0	.5	1.4	.5	.0		2.4	.0	.0	1.0	2.5	.1	.0		4.1
12	.0	.0	.4	.4	.5	.0		1.3	.0	.0	.3	1.3	.2	.0		1.8
13-16	.0	.0	.0	.5	.0	.2		.8	.0	.0	.5	1.2	.3	.2		2.2
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.5	.0		.5
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.2	.0	.0		.2
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	.7	12.9	11.2	2.6	.5		27.8	.0	1.6	11.9	16.4	2.6	.2		99.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.5	1.4	.0	.0	.0	.0	1.9	
1-2	.0	1.7	5.0	.0	.0	.0	6.7	
3-4	.0	2.4	11.3	3.1	.0	.0	16.8	
5-6	.0	.0	11.5	9.1	1.2	.0	21.8	
7	.0	.5	8.6	9.4	1.0	.2	19.7	
8-9	.2	.2	2.4	8.2	1.2	.0	12.2	
10-11	.0	.0	1.4	6.2	1.7	.0	9.4	
12	.0	.0	1.0	2.2	1.4	.0	4.6	
13-16	.0	.0	.5	3.6	.5	.5	5.0	
17-19	.0	.0	.0	.5	1.0	.0	1.4	
20-22	.0	.0	.0	.5	.0	.0	.5	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	6.2	41.7	42.7	7.9	.7	100.0	417

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	3.6	8.4	9.8	4.1	2.0	1.1	.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	203	5
6-7	.0	.3	2.4	6.2	5.4	4.5	5.0	1.1	1.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	174	7
8-9	.0	.3	.6	1.5	2.1	1.2	3.2	2.4	2.7	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	96	9
10-11	.0	.3	.2	.6	.6	.6	.2	.6	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	9
12-13	.0	.0	.3	.0	.0	.3	.5	.6	.3	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	16	12
>13	.0	.0	.0	.2	.0	.3	.2	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	7	14
INDET	.6	1.2	2.4	3.9	4.4	2.0	2.6	1.1	1.8	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	137	7
TOTAL	9	38	95	147	110	72	83	39	52	9	6	2	1	0	0	0	0	0	0	863	7
PCT	1.4	5.7	14.3	22.2	16.6	10.9	12.5	5.9	7.8	1.4	.9	.3	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1939-1974

MARCH

AREA 0026 URUP ISLAND
46.1N 151.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	CRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	
N	.0	.0	.0	.0	18.2	.0	.0	18.2	4.1	.0	1.8	.0	.0	.0	75.9
NE	.0	.0	1.0	.0	24.2	.0	.0	25.3	4.0	.0	2.0	2.0	1.0	1.3	64.4
E	.0	.0	.0	1.4	28.6	.0	.0	30.0	4.2	.0	5.7	.0	.0	1.1	59.0
SE	1.8	.0	1.4	.0	13.8	.0	.0	17.0	4.9	.0	8.5	.0	.0	.0	69.6
S	4.1	.0	3.3	.0	6.9	.0	.0	14.3	8.2	.0	9.4	.0	.0	.0	68.2
SW	1.3	.0	1.0	.0	6.2	.0	.0	8.5	2.1	.0	2.6	.0	.0	.0	86.9
W	.6	.0	.0	.0	14.4	.0	.0	14.9	5.5	.0	2.0	.0	.0	.0	77.6
NW	.0	.4	.4	.4	16.2	.0	.0	17.4	6.1	.0	1.6	.0	.0	.4	74.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	5.3	.0	.0	5.3	5.3	.0	5.3	.0	.0	.0	84.2
TOT PCT	.6	.1	.6	.2	16.0	.0	.0	17.4	5.0	.0	3.1	.2	.1	.3	73.8
TOT DBS:	1021														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	CRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	
00003	.3	.0	.7	.3	18.0	.0	.0	19.3	6.2	.0	3.9	.7	.3	.7	68.9
06009	.7	.0	.7	.0	14.6	.0	.0	16.0	6.0	.0	2.8	.0	.0	.0	75.1
12015	.8	.0	.4	.0	14.2	.0	.0	15.4	3.1	.0	3.1	.0	.4	.0	78.1
18021	.5	.5	.5	.5	17.6	.0	.0	19.4	3.6	.0	3.2	.0	.0	.5	73.4
TOT PCT	.6	.1	.6	.2	16.1	.0	.0	17.5	4.9	.0	3.3	.2	.2	.3	73.7
TOT DBS:	1068														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	.6	3.3	8.4	4.3	1.0	.1		17.7	18.3	17.0	10.7	18.1	18.1	19.5	16.7	14.5	51.9	
NE	.1	1.4	4.3	3.4	.5	.1		9.8	20.1	7.3	7.1	9.9	5.6	10.2	11.9	12.9	9.6	
E	.0	1.6	3.0	2.3	.6	.2		7.8	21.3	7.3	7.1	7.9	8.3	10.0	.0	6.9	7.7	
SE	.4	1.6	3.3	1.3	.4	.2		7.3	17.7	7.6	7.1	7.8	8.3	6.9	.0	8.3	.0	
S	.0	1.0	2.4	1.2	.2	.1		4.9	18.8	6.8	7.1	5.3	.0	3.2	.0	5.1	.0	
SW	.0	2.9	4.2	1.2	.3	.0		8.5	15.2	10.7	17.9	6.3	19.4	3.4	10.7	11.9	.0	
W	.4	3.0	7.6	4.4	.6	.0		16.1	18.0	17.0	8.9	12.0	27.8	17.4	40.5	15.5	3.8	
NW	.0	3.1	11.9	9.3	1.7	.0		26.1	20.5	24.9	33.9	31.7	12.5	26.1	20.2	22.6	26.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8							1.8	.0	1.4	.0	1.0	.0	3.3	.0	2.3	.0	
TOT DBS	28	192	389	233	44	7	847		18.6	220	14	202	18	182	21	177	13	
TOT PCT	3.3	17.9	42.2	27.5	5.2	.8		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	06	09	15	18
N	1.7	6.5	6.7	2.4	.5		17.7	18.3	16.7	18.1	19.2	17.1		
NE	.8	3.3	3.2	2.4	.1		9.8	20.1	7.3	9.5	10.3	12.6		
E	.4	2.3	2.9	1.8	.4		7.8	21.3	7.3	8.0	9.0	7.0		
SE	.7	3.9	1.2	1.2	.4		7.3	17.7	7.6	7.8	6.2	7.8		
S	.6	1.4	2.3	.6	.1		4.9	18.8	6.8	4.9	2.8	4.7		
SW	1.0	4.7	2.1	.6	.0		8.5	15.2	11.1	7.4	4.2	11.1		
W	1.4	6.3	6.3	2.0	.1		16.1	18.0	16.6	13.3	19.8	14.7		
NW	.9	8.1	11.5	5.2	.4		26.1	20.5	25.4	30.1	25.5	22.9		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	1.8						1.8	.0	1.4	.0	3.0	2.1		
TOT DBS	78	309	307	136	17	847		18.6	234	220	203	190		
TOT PCT	9.2	36.5	36.2	16.1	2.0		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1935-1974

MARCH

AREA 0026 URUP ISLAND
46.1N 151.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000Z	1.3	.9	17.5	44.4	29.1	6.0	.9	19.1	100.0	234
0600Z	.9	1.4	15.0	43.6	33.6	4.5	.9	20.0	100.0	220
1200Z	3.0	2.5	16.7	50.2	23.6	3.4	.5	17.3	100.0	203
1800Z	2.1	1.6	23.2	42.6	22.6	6.8	1.1	18.0	100.0	190
TOT	13	13	152	383	233	44	7	18.6		847
PCT	1.8	1.5	17.9	45.2	27.5	5.2	.8	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.1	2.0	5.7	5.6		5.8
NE	.3	.9	2.1	6.0		7.0
E	.1	.4	1.5	4.7		7.2
SE	.3	.6	1.8	4.2		6.9
S	.2	.7	1.2	4.1		6.9
SW	2.1	1.7	3.1	2.7		5.1
W	2.6	3.8	6.6	4.6		5.2
NW	4.0	3.8	9.8	8.6		5.6
VAR	.0	.0	.0	.0		.0
CALM	1.1	.4	.5	.5		3.5
TOT OBS	108	121	274	348	851	5.9
TOT PCT	12.7	14.2	32.2	40.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.6	.1	.4	.5	2.1	4.5	1.2	.3	.1	.0	5.6	
NE	.9	.1	.3	.3	1.5	3.2	1.0	.1	.0	.0	1.9	
E	.9	.0	.2	.6	1.6	1.9	.4	.0	.4	.0	.7	
SE	1.0	.1	.2	.1	1.4	1.4	.8	.0	.4	.0	1.3	
S	1.1	.1	.0	.1	1.3	1.2	.3	.2	.1	.1	1.4	
SW	.5	.0	.1	.4	1.1	2.2	.3	.1	.1	.0	4.8	
W	1.2	.2	.4	.7	2.7	3.8	1.1	.1	.3	.0	7.1	
NW	1.3	.4	.2	1.3	5.0	6.6	1.6	.1	.0	.4	9.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	64	9	17	35	146	213	59	8	13	4	283	851
TOT PCT	7.5	1.1	2.0	4.1	17.2	25.0	6.9	.9	1.5	.5	33.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.6	1.5	1.7	1.8	2.1	2.1	2.1	2.1
= OR >5000	.8	2.3	2.6	2.7	3.0	3.0	3.0	3.0
= OR >3500	4.5	8.2	9.0	9.4	9.7	10.0	10.0	10.0
= OR >2000	17.3	28.8	31.9	32.4	33.5	34.0	34.1	34.3
= OR >1000	23.6	40.7	45.1	47.1	49.2	50.2	51.1	51.4
= OR >600	24.8	43.1	48.4	50.8	53.0	54.1	55.3	55.5
= OR >300	25.1	43.7	49.8	52.4	54.7	55.9	57.2	57.4
= OR >150	25.4	44.2	50.8	53.4	55.7	57.0	58.2	58.5
= OR >0	25.4	44.7	52.7	56.3	59.8	63.0	65.8	66.2
TOTAL	222	391	461	492	523	551	575	579

TOTAL NUMBER OF OBS: 874

PCT FREQ NH <5/8: 33.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.9	2.6	6.2	7.7	9.7	7.3	10.4	10.9	32.3	963

PERIOD: (PRIMARY) 1969-1974
(OVER-ALL) 1935-1974

MARCH

AREA 0026 URUP ISLAND
46.1N 151.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	1.1	.9	.3	.1	.1	.9	1.1	.0	.0	5.2	
	NO PCP	.1	.2	.3	.3	.3	.1	.2	.1	.0	.1	1.7	
	TOT %	.7	1.3	1.2	.6	.4	.3	1.0	1.3	.0	.1	6.9	
1/2<1	PCP	.3	.4	.7	.4	.2	.1	.3	.7	.0	.0	3.0	
	NO PCP	.1	.3	.0	.2	.1	.0	.0	.1	.0	.1	.9	
	TOT %	.4	.7	.7	.6	.3	.1	.3	.8	.0	.1	3.9	
1<2	PCP	.8	.5	.3	.2	.2	.3	.5	.6	.0	.0	3.3	
	NO PCP	.0	.2	.1	.1	.3	.0	.1	.2	.0	.0	1.0	
	TOT %	.8	.7	.4	.3	.5	.3	.6	.8	.0	.0	4.3	
2<5	PCP	.8	.3	.1	.3	.4	.2	.6	1.2	.0	.0	3.9	
	NO PCP	1.3	.5	.3	.9	.4	1.0	1.2	1.6	.0	.1	7.4	
	TOT %	2.1	.8	.4	1.2	.8	1.2	1.7	2.8	.0	.1	11.3	
5<10	PCP	.3	.2	.0	.1	.1	.*	.3	.8	.0	.1	1.9	
	NO PCP	3.7	3.0	1.7	1.3	1.7	2.1	4.0	6.2	.0	.3	23.9	
	TOT %	3.9	3.2	1.7	1.4	1.8	2.1	4.3	6.9	.0	.4	25.8	
10+	PCP	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.3	
	NO PCP	8.1	2.8	2.5	3.0	2.3	5.5	9.4	12.9	.0	1.2	47.5	
	TOT %	8.1	2.8	2.5	3.0	2.3	5.6	9.5	12.9	.0	1.2	47.8	
TOT OBS													1020
TOT PCT													
		16.1	9.5	6.9	7.1	6.0	9.5	17.5	25.4	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	
	11-21	.4	.5	.5	.1	.2	.0	.0	.7	.0	.0	2.3	
	22+	.3	.9	.9	.4	.2	.2	.4	.3	.0	.0	3.6	
	TOT %	.7	1.3	1.4	.6	.5	.2	.4	1.1	.0	.0	6.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.2	.0	.0	.0	.0	.1	.*	.0	.0	.5	
	11-21	.2	.0	.4	.2	.0	.0	.0	.5	.0	.0	1.3	
	22+	.1	.2	.5	.4	.2	.1	.2	.4	.0	.0	2.0	
	TOT %	.5	.5	.8	.6	.2	.1	.3	.9	.0	.1	4.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	11-21	.2	.4	.2	.1	.3	.3	.2	.2	.0	.0	1.9	
	22+	.7	.3	.1	.2	.1	.0	.4	.5	.0	.0	2.3	
	TOT %	.8	.7	.4	.4	.5	.3	.6	.8	.0	.0	4.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.4	
	4-10	.3	.0	.0	.0	.1	.2	.1	.2	.0	.0	.8	
	11-21	1.3	.4	.2	.8	.2	.3	.3	1.2	.0	.0	4.8	
	22+	.6	.4	.3	.5	.4	.1	.7	1.1	.0	.0	4.1	
	TOT %	2.2	.8	.5	1.3	.7	.5	1.4	2.4	.0	.2	10.1	
5<10	0-3	.0	.0	.0	.2	.0	.0	.1	.*	.0	.5	.8	
	4-10	.8	.1	.4	.3	.3	.8	.9	.8	.0	.0	4.3	
	11-21	1.5	1.7	.5	.9	.7	.7	2.1	2.7	.0	.0	10.8	
	22+	1.8	1.5	.9	.2	.4	.5	1.3	3.8	.0	.0	10.3	
	TOT %	4.1	3.3	1.9	1.6	1.4	2.0	4.3	7.3	.0	.5	26.3	
10+	0-3	.6	.1	.0	.1	.0	.0	.2	.0	.0	1.0	2.0	
	4-10	2.0	1.1	1.2	1.2	.7	2.0	1.9	2.0	.0	.0	12.0	
	11-21	4.8	1.0	1.1	1.3	.9	2.9	4.9	6.9	.0	.0	23.8	
	22+	1.8	.8	.5	.3	.2	.6	2.2	4.9	.0	.0	11.3	
	TOT %	9.2	2.9	2.9	2.9	1.8	5.4	9.2	13.8	.0	1.0	49.2	
TOT OBS													832
TOT PCT													
		17.5	9.5	7.8	7.4	5.0	8.5	16.3	26.3	.0	1.8	100.0	

MARCH

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1935-1974

AREA 0026 URUP ISLAND
46.1N 151.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	6.2	1.8	2.2	5.1	20.4	25.1	9.1	1.1	2.5	.7	74.2	25.8	275
06009	5.6	.4	3.6	5.2	19.4	25.8	6.0	1.2	1.2	.0	68.3	31.7	252
12015	7.9	.5	.5	3.0	12.3	19.7	7.4	1.0	.5	1.0	53.7	46.3	203
18021	13.1	1.2	.6	1.8	13.1	25.6	4.8	.0	1.8	.0	61.9	38.1	168
TOT	69	9	17	36	152	217	63	8	14	4	589	309	898
PCT	7.7	1.0	1.9	4.0	16.9	24.2	7.0	.9	1.6	.4	63.6	34.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	6.2	4.2	6.9	10.4	20.1	52.6	308
06009	6.0	4.2	4.8	9.5	26.1	49.3	284
12015	6.5	2.7	4.2	12.9	28.1	45.6	263
18021	9.6	4.4	1.3	11.8	28.9	43.9	228
TOT	75	42	48	120	276	522	1083
PCT	6.9	3.9	4.4	11.1	25.5	48.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	6.2	15.7	29.6	46.4	24.1	274
06009	6.1	13.4	23.5	46.2	30.4	247
12015	7.9	13.7	26.3	31.6	42.1	190
18021	14.1	20.9	30.1	33.7	36.2	163
TOT	70	136	238	356	280	874
PCT	8.0	15.6	27.2	40.7	32.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	.0	.6	.6	.6	3	1.8
35/39	.0	.0	1.2	2.5	1.8	3.7	1.2	7.4	29	17.8
30/34	.0	.0	.0	.0	2.5	5.8	6.7	27.6	69	42.3
25/29	.0	.0	.0	.0	3.1	3.1	8.0	17.2	51	31.3
20/24	.0	.0	.0	.0	.0	.6	1.2	3.1	8	4.9
15/19	.0	.0	.0	.0	.0	.0	.0	1.8	3	1.8
TOTAL	0	0	2	4	12	22	29	94	163	100.0
PCT	.0	.0	1.2	2.5	7.4	13.5	17.8	57.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
40/44	.0	.6	.0	.6	.0	.6	.0	.0	.0	.0
35/39	.3	2.6	1.1	.8	4.8	1.7	3.1	3.4	.0	.0
30/34	8.6	5.7	3.4	2.1	2.8	8.1	7.4	4.3	.0	.0
25/29	6.4	3.8	1.8	.3	2.0	1.1	8.1	7.7	.0	.0
20/24	.3	.6	.0	.0	.0	.0	1.7	2.1	.0	.0
15/19	.0	.0	.0	.0	.0	.0	.9	.9	.0	.0
TOTAL	16.0	13.3	6.3	3.8	9.5	11.5	21.2	18.4	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	42	40	37	30	19	16	10	29.6	292
06009	43	41	37	30	21	14	9	29.7	279
12015	43	40	36	28	19	17	16	28.1	259
18021	41	38	36	28	19	16	10	28.4	223
TOT	43	40	37	29	19	16	9	29.0	1053

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.3	4.3	17.0	8.5	66.0	90	47		
06009	.0	6.5	6.5	15.2	21.7	50.0	86	46		
12015	.0	2.8	13.9	8.3	19.4	55.6	88	36		
18021	.0	.0	5.9	11.8	23.5	58.8	91	34		
TOT	0	6	12	22	29	94	88	163		

PERIOD: (PRIMARY) 1963-1974
(OVER-ALL) 1935-1974

MARCH

AREA 0026 URUP ISLAND
46.1N 151.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.4	4	.0	.4
7/8	.0	.0	.0	.0	.0	.0	.1	.3	.2	6	.2	.4
6	.0	.0	.0	.0	.0	.0	.1	.3	.1	5	.1	.4
5	.0	.0	.0	.0	.0	.0	.2	1.1	.0	12	.2	1.1
4	.0	.0	.0	.0	.0	.0	1.0	1.1	.1	20	.1	2.1
3	.0	.0	.0	.0	.0	.1	1.4	1.2	.0	25	.3	2.4
2	.0	.0	.0	.0	.0	.9	2.7	.1	.0	34	.0	3.7
1	.0	.0	.0	.0	.0	.9	1.7	.1	.0	25	.0	2.7
0	.0	.0	.0	.0	.3	3.5	3.0	.5	.0	68	.1	7.3
-1	.0	.0	.0	.0	.0	3.5	1.2	.2	.0	46	.2	4.8
-2	.0	.0	.0	.0	.3	7.4	1.4	.1	.1	86	.0	9.3
-3	.0	.0	.0	.0	1.4	3.9	.5	.2	.0	56	.1	6.0
-4	.0	.0	.0	.0	3.7	5.0	1.0	.0	.0	89	.3	9.3
-5	.0	.0	.0	.0	1	3.2	3.4	.2	.0	64	.1	6.8
-6	.0	.0	.0	.4	3.6	1.0	.1	.0	.0	47	.1	5.0
-7/-8	.0	.0	.0	1.1	6.8	1.4	.1	.0	.0	87	.1	9.3
-9/-10	.0	.0	.1	2.5	5.2	1.2	.2	.0	.0	85	.1	9.1
-11/-13	.0	.0	1.1	3.5	2.9	.4	.5	.0	.0	78	.1	8.3
-14/-16	.0	.4	2.1	1.8	1.1	.1	.1	.0	.0	52	.4	5.2
-17/-19	.1	.3	1.3	.8	.0	.1	.0	.0	.0	24	.1	2.5
-20/-22	.0	.0	.2	.2	.2	.0	.0	.0	.0	6	.0	.6
-23/-25	.1	.0	.0	.2	.0	.0	.0	.0	.0	3	.1	.2
-26/-30	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	3	7	44	98	266	302	145	49	10	924	2.9	897
PCT	.3	.8	4.8	10.6	28.8	32.7	15.7	5.3	1.1	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.8	.2	.0	.0	.0	1.1	.2	.1	.0	.0	.0	.0	.3
1-2	.2	1.5	.9	.0	.0	.0	2.5	.0	.4	.3	.0	.0	.0	.9
3-4	.2	.8	1.6	.5	.0	.0	3.1	.0	.1	.5	.3	.0	.0	.9
5-6	.0	.2	1.9	.9	.0	.0	3.0	.0	.2	.6	.1	.0	.0	.9
7	.0	.0	1.9	1.0	.1	.0	3.1	.0	.0	.9	.4	.0	.0	1.4
8-9	.0	.0	.4	.5	.0	.0	.9	.0	.0	.3	.4	.0	.0	.7
10-11	.0	.0	.4	.6	.0	.0	1.0	.0	.0	.*	.7	.0	.0	.7
12	.0	.0	.0	.1	.3	.0	.4	.0	.0	.*	.5	.0	.0	.5
13-16	.0	.0	.0	.4	.2	.1	.6	.0	.0	.0	.3	.0	.2	.5
17-19	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.2	.5	.0	.6
23-25	.0	.0	.0	.2	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.2	7.5	4.5	1.0	.1	16.8	.2	.8	2.9	2.9	.5	.2	7.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.2	.0	.0	.0	.0	.2	.2	.3	.2	.0	.0	.0	.6
1-2	.0	.4	.3	.0	.0	.0	.7	.0	1.1	.5	.0	.0	.0	1.6
3-4	.0	.5	.9	.3	.0	.0	1.6	.0	.4	1.2	.2	.0	.0	1.7
5-6	.0	.0	.8	.2	.0	.0	1.0	.0	.0	.7	.3	.0	.0	1.0
7	.0	.2	.3	.6	.0	.0	1.1	.0	.0	.5	.2	.0	.0	.7
8-9	.0	.0	.2	.8	.2	.2	1.3	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.2	.3	.2	.0	.7
12	.0	.0	.4	.0	.0	.2	.6	.0	.0	.0	.2	.0	.3	.5
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.2	.2	.0	.3
17-19	.0	.0	.0	.1	.3	.0	.4	.0	.0	.0	.*	.2	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	2.9	2.5	.8	.3	7.7	.2	1.8	3.8	1.4	.5	.3	7.9

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0026 URUP ISLAND
46.1N 151.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	.3	.3	.0	.0	.0	.6	.0	.4	.5	.0	.0	.0	.9
3-4	.0	.1	.5	.0	.0	.0	.6	.0	.6	.9	.3	.0	.0	1.8
5-6	.0	.2	1.0	.6	.0	.0	1.7	.0	.3	1.3	.*	.0	.0	1.6
7	.0	.0	.4	.3	.0	.0	.7	.0	.*	1.0	.3	.*	.0	1.4
8-9	.0	.0	.2	.2	.0	.0	.3	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.3	.2	.2	.0	.6	.0	.0	.2	.2	.1	.0	.4
12	.0	.0	.0	.2	.0	.0	.2	.0	.2	.0	.3	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.3	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.2	.1	.0	.3	.0	.0	.0	.0	.*	.0	.*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	2.5	1.5	.3	.0	5.1	.0	2.7	3.9	1.5	.2	.0	8.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.8	.2	.0	.0	.0	1.1	.*	1.1	.2	.0	.0	.0	1.3	
1-2	.0	1.1	1.0	.0	.0	.0	2.1	.0	.9	1.7	.0	.0	.0	2.6	
3-4	.0	1.0	2.3	.5	.0	.0	3.8	.0	1.1	4.0	.8	.0	.0	5.9	
5-6	.3	.1	3.1	1.3	.1	.0	5.0	.0	.0	3.2	2.8	.2	.0	6.1	
7	.0	.1	.9	1.1	.1	.0	2.2	.0	.0	2.3	2.5	.2	.0	5.0	
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.6	2.0	.0	.0	2.6	
10-11	.0	.0	.7	.5	.3	.0	1.5	.0	.0	.4	1.5	.2	.0	2.1	
12	.0	.0	.2	.5	.0	.0	.6	.0	.0	.0	.1	.3	.0	.5	
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.5	.2	.*	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.3	.0	.8	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.*	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	3.2	4.4	4.2	.6	.0	16.8	.*	3.1	12.5	10.9	1.7	.*	28.3	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.3	4.7	.6	.0	.0	.0	7.6	
1-2	.2	6.1	5.6	.0	.0	.0	11.9	
3-4	.2	4.6	11.9	2.9	.0	.0	19.5	
5-6	.3	.9	12.6	6.2	.3	.0	20.4	
7	.0	.3	8.2	6.5	.5	.0	15.5	
8-9	.0	.0	2.6	4.1	.2	.2	7.0	
10-11	.0	.0	2.1	4.4	.9	.0	7.4	
12	.0	.2	.6	1.8	.6	.5	3.6	
13-16	.0	.2	.0	1.8	.6	.3	2.9	
17-19	.0	.0	.2	.8	.8	.0	1.7	
20-22	.0	.0	.2	.3	.8	.0	1.2	
23-25	.0	.0	.0	.3	.3	.0	.6	
26-32	.0	.0	.0	.2	.6	.0	.8	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.9	16.9	44.5	29.3	5.5	.9	100.0	658

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	5.3	9.1	7.7	6.3	1.5	1.1	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	296	5
6-7	.0	.3	2.2	5.9	5.1	4.1	3.4	1.6	1.1	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	224	8
8-9	.0	.1	.7	1.4	2.9	2.4	1.7	1.7	1.3	.5	.8	.3	.0	.0	.0	.0	.0	.0	.0	128	10
10-11	.0	.3	.5	1.0	.8	.4	1.2	.2	.4	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	49	9
12-13	.0	.0	.5	.7	.1	.2	.8	.3	.3	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	32	10
>13	.0	.0	.0	.4	.1	.3	.2	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	15	10
INDEX	2.2	1.7	3.0	3.2	2.4	.8	2.2	1.0	1.1	.3	.5	.2	.4	.0	.0	.0	.0	.0	.0	175	7
TOTAL	23	72	148	186	163	90	97	48	44	17	20	6	5	0	0	0	0	0	0	919	7
PCT	2.5	7.8	16.1	20.2	17.7	9.8	10.6	5.2	4.8	1.8	2.2	.7	.5	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1960-1974
(OVER-ALL) 1979-1974

APRIL

AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.8	.0	.0	.0	14.6	.0	.0	17.4	1.5	.0	5.8	.6	.6	.0	74.0
NE	8.5	.0	3.3	.0	12.2	.0	.0	24.0	2.7	.0	19.1	1.2	.6	.0	52.3
E	8.4	.0	4.2	1.1	10.6	.0	.0	24.2	2.2	.0	15.3	2.8	1.7	.0	53.8
SE	11.6	.0	7.0	.0	5.1	.0	.0	20.7	6.0	.0	26.5	1.4	1.0	1.0	43.4
S	9.4	.0	2.4	.5	6.2	.0	.0	18.5	2.9	.0	24.1	.0	.0	.7	53.7
SW	2.7	.0	2.6	.1	2.5	.0	.0	8.0	2.2	.0	11.3	.0	.8	.0	77.8
W	.5	.0	1.6	.0	4.3	.0	.0	5.9	.8	.0	5.6	.5	.9	.5	85.9
NW	1.0	.0	1.2	.0	10.4	.0	.0	12.6	6.4	.0	5.6	.1	1.1	.5	73.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	27.1	2.1	.0	.0	66.7
TOT PCT	4.2	.0	2.4	.2	6.9	.0	.0	13.3	3.1	.0	12.9	.6	.8	.3	69.0
TOT OBS:	1270														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.6	.0	2.5	.3	6.6	.0	.0	12.4	3.3	.0	13.2	.6	.6	.3	69.7
06009	2.9	.0	3.4	.0	6.6	.0	.0	12.6	2.9	.0	13.7	1.4	1.1	.6	67.7
12015	3.6	.0	2.1	.3	5.0	.0	.0	10.9	3.0	.0	14.2	.0	.9	.3	70.7
18021	6.8	.0	1.4	.0	9.0	.0	.0	16.9	3.6	.0	11.5	.4	.4	.0	67.3
TOT PCT	4.1	.0	2.4	.2	6.7	.0	.0	13.0	3.2	.0	13.2	.6	.8	.3	68.9
TOT OBS:	1329														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	2.1	2.5	3.0	1.1	.0		8.9	20.0		9.5	4.7	9.5	9.5	10.3	7.8	9.4	3.9
NE	.6	2.6	2.1	.8	.8	.2		7.1	16.7		8.2	8.7	7.0	4.2	6.3	6.0	9.4	2.9
E	.1	2.7	2.8	.8	.0	.0		6.7	15.3		8.1	4.0	6.7	5.3	9.2	1.7	6.9	3.2
SE	.2	3.0	2.9	1.7	1.0	.2		8.6	17.5		6.2	10.7	7.5	9.2	7.3	9.5	10.1	15.7
S	.3	4.1	5.4	1.7	.4	.1		12.0	15.0		7.2	15.3	11.7	17.3	11.8	24.1	9.9	13.9
SW	.6	5.9	10.6	3.8	.2	.0		21.0	15.3		26.6	26.3	19.3	22.3	16.7	25.9	16.3	23.2
W	.6	3.5	8.3	4.9	.3	.1		17.1	17.9		16.3	16.3	20.4	16.2	17.3	7.8	18.1	16.1
NW	.0	3.7	5.7	4.8	1.2	.5		15.9	20.2		15.9	14.0	15.4	13.0	17.6	13.8	15.1	21.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0		1.9	.0	2.3	2.8	3.6	3.4	4.7	.0
TOT OBS	50	300	434	234	59	11	1088		16.8		207	75	214	71	223	58	170	70
TOT PCT	4.6	27.6	39.9	21.5	5.4	1.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.1	2.3	3.5	2.0	.0		8.9	20.0	8.2	9.5	9.8	7.8	
NE	1.5	3.2	1.1	.8	.5		7.1	16.7	8.3	6.3	6.2	7.5	
E	1.4	3.3	1.2	.5	.3		6.7	15.3	7.0	6.3	7.7	5.8	
SE	1.7	3.4	1.7	1.5	.3		8.6	17.5	7.4	7.9	7.7	11.8	
S	1.9	5.7	3.0	1.1	.1		12.0	15.0	9.4	13.1	14.3	11.0	
SW	2.7	9.9	6.8	1.6	.0		21.0	15.3	26.5	20.3	18.6	18.3	
W	.7	7.4	7.0	1.9	.1		17.1	17.9	16.3	19.4	15.3	17.5	
NW	1.6	4.7	6.1	2.9	.7		15.9	20.2	15.4	14.8	16.8	16.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.7						2.7	.0	1.4	2.5	3.6	3.3	
TOT OBS	166	434	332	134	22	1088		16.8	282	285	281	240	
TOT PCT	15.3	39.9	30.5	12.3	2.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1960-1974
(OVER-ALL) 1879-1974

APRIL

AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.4	2.5	25.9	41.5	22.3	5.0	1.4	17.1	100.0	282
06009	2.5	.4	25.3	40.7	23.2	7.4	.7	18.0	100.0	285
12015	3.6	2.8	30.2	37.7	20.6	3.6	1.4	16.0	100.0	281
18021	3.3	2.1	29.2	39.6	19.6	5.8	.4	15.9	100.0	240
TOT	29	21	300	434	234	59	11	16.8		1088
PCT	2.7	1.9	27.6	39.9	21.5	5.4	1.0	100.0		

TABLE 4

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	1.5	.7	3.7	3.7		5.8
NE	.7	.1	1.0	4.9		6.9
E	.7	.3	.7	5.7		6.9
SE	1.3	.1	.5	5.3		6.4
S	2.9	.5	1.5	5.5		5.5
SW	8.5	2.7	3.5	9.8		3.8
W	8.4	1.8	3.9	4.1		3.7
NW	3.6	2.3	4.3	6.7		5.3
VAR	.0	.0	.0	.0		.0
CALM	2.0	.1	.3	1.2	995	3.4
TOT OBS	277	81	175	407		5.0
TOT PCT	29.6	8.7	18.7	43.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT. NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.0	.0	.0	.6	2.2	1.8	.8	.2	.2	.0	2.2	
NE	1.8	.0	.2	.6	1.6	1.2	.2	.0	.0	.1	1.0	
E	1.7	.0	.2	.4	1.3	1.7	.3	.1	.1	.0	1.6	
SE	2.0	.0	.1	.5	1.2	1.4	.2	.0	.0	.1	1.7	
S	3.1	.0	.0	.6	.7	1.5	.3	.1	.1	.1	3.7	
SW	1.5	.0	.2	.4	1.4	2.9	.9	.2	.3	.3	12.1	
W	.8	.0	.3	.9	1.7	2.0	.5	.3	.4	.2	11.2	
NW	1.9	.0	.2	.9	2.9	3.1	.8	.1	.1	.2	6.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.0	.1	.2	.4	.1	.0	.0	.1	2.1	
TOT OBS	135	0	11	48	124	150	39	9	12	11	396	935
TOT PCT	14.4	.0	1.2	5.1	13.3	16.0	4.2	1.0	1.3	1.2	42.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VISBY (NM)

CEILING (FEET)	VISBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.9	2.1	2.2	2.3	2.3	2.3	2.3	2.3
= OR >5000	1.2	2.9	3.1	3.2	3.2	3.2	3.2	3.2
= OR >3500	3.7	6.6	7.0	7.6	7.7	7.7	7.7	7.7
= OR >2000	12.3	19.5	22.3	23.2	23.4	23.7	23.7	23.7
= OR >1000	15.4	27.3	32.8	34.8	35.8	36.4	36.4	36.4
= OR >600	16.7	31.0	37.2	39.2	40.5	41.3	41.3	41.3
= OR >300	16.8	31.3	37.9	40.1	41.4	42.4	42.4	42.4
= OR >150	16.8	31.3	37.9	40.1	41.4	42.4	42.4	42.4
= OR >0	17.0	32.2	41.0	44.3	46.5	50.2	55.9	57.3
TOTAL	164	311	396	428	449	485	540	554

TOTAL NUMBER OF OBS: 966

PCT FREQ NM <5/81 42.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
22.1	3.8	7.0	4.9	3.3	5.0	6.6	6.4	27.8	13.2	1050

APRIL

PERIOD: (PRIMARY) 1960-1974
(OVER-ALL) 1979-1974AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.9	.5	.4	.1	.1	.3	.1	.5	.0	.0	2.5	
	NO PCP	.9	1.0	.8	1.5	2.2	1.2	.6	.6	.0	.5	8.7	
	TOT %	.8	1.5	1.3	1.6	2.3	1.5	.7	1.1	.0	.5	11.2	
1/2<1	PCP	.9	.1	.2	.4	.4	.0	.0	.4	.0	.0	1.7	
	NO PCP	.0	.2	.3	.4	.1	.2	.2	.2	.0	.2	1.7	
	TOT %	.9	.3	.5	.8	.5	.2	.2	.5	.0	.2	3.5	
1<2	PCP	.2	.3	.2	.4	.3	.2	.1	.3	.0	.0	1.9	
	NO PCP	.2	.1	.2	.3	.2	.3	.4	.2	.0	.3	2.1	
	TOT %	.9	.4	.4	.6	.4	.6	.4	.4	.0	.3	4.0	
2<5	PCP	.1	.6	.9	.6	1.0	1.0	.6	.7	.0	.0	5.5	
	NO PCP	.9	.2	.5	.9	.6	1.4	1.1	1.2	.0	.3	6.8	
	TOT %	.6	.8	1.4	1.5	1.6	2.4	1.7	1.9	.0	.3	12.3	
5<10	PCP	.2	.1	.1	.2	.3	.7	.3	.4	.0	.0	1.7	
	NO PCP	2.9	1.4	1.1	1.1	2.2	4.9	4.6	4.4	.0	.9	23.1	
	TOT %	2.7	1.5	1.2	1.3	2.5	5.2	4.9	4.8	.0	.9	24.8	
10+	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	4.2	2.0	2.4	2.3	3.5	11.7	9.2	7.7	.0	1.6	44.1	
	TOT %	4.3	2.0	2.4	2.3	3.5	11.2	9.2	7.7	.0	1.6	44.2	
TOT OBS													1269
TOT PCT		9.2	6.5	7.1	8.2	10.8	21.0	17.1	16.4	.0	3.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.0	.2	.1	.0	.0	.0	.3	.8	
	4-10	.1	.7	.4	.4	.8	.7	.1	.4	.0		3.7	
	11-21	.2	.6	.4	.5	.6	.5	.3	.2	.0		3.5	
	22+	.4	.9	.1	.5	.3	.2	.5	.0			2.8	
	TOT %	.8	1.6	1.0	1.4	2.1	1.6	.8	1.2	.0	.3	10.8	
1/2<1	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.3	.3	.1	.0	.0	.2	.0		.9	
	11-21	.1	.1	.1	.1	.4	.0	.0	.5	.0		1.2	
	22+	.4	.2	.0	.3	.1	.0	.0	.4	.0		1.4	
	TOT %	.5	.3	.4	.8	.6	.0	.0	1.1	.0	.1	3.8	
1<2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	
	4-10	.0	.3	.1	.6	.0	.1	.0	.2	.0		1.3	
	11-21	.1	.0	.2	.4	.6	.2	.0	.0	.0		1.4	
	22+	.2	.2	.1	.4	.2	.2	.3	.4	.0		2.0	
	TOT %	.4	.5	.5	1.3	.8	.4	.3	.5	.0	.3	5.1	
2<5	0-3	.0	.1	.0	.1	.1	.0	.0	.0	.0	.1	.4	
	4-10	.1	.2	.4	.2	.6	.8	.0	.1	.0		2.3	
	11-21	.3	.3	.4	.3	.6	1.2	.4	.8	.0		4.4	
	22+	.2	.4	.7	.9	.6	.8	.9	1.1	.0		5.6	
	TOT %	.5	1.0	1.5	1.5	1.9	2.9	1.3	2.0	.0	.1	12.8	
5<10	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.8	1.0	
	4-10	.9	.6	.6	.1	.8	1.2	1.0	.9	.0		5.9	
	11-21	.8	.5	.3	.4	1.5	2.9	2.2	1.5	.0		10.1	
	22+	.9	.4	.2	.6	.5	.8	1.8	2.0	.0		7.4	
	TOT %	2.7	1.5	1.1	1.1	2.7	5.0	5.0	4.4	.0	.8	24.4	
10+	0-3	.0	.3	.0	.0	.0	.3	.0	.0	.0	1.1	1.9	
	4-10	.9	.8	1.0	1.5	1.9	2.8	2.4	1.6	.0		12.9	
	11-21	1.0	.8	1.2	.6	1.8	6.1	5.3	2.7	.0		19.5	
	22+	2.0	.4	.2	.2	.2	1.8	1.8	2.1	.0		8.8	
	TOT %	3.9	2.2	2.4	2.3	3.9	11.2	9.3	6.4	.0	1.1	43.1	
TOT OBS													1061
TOT PCT		8.8	7.2	6.9	8.5	12.0	21.1	17.0	15.7	.0	2.7	100.0	

APRIL

PERIOD: (PRIMARY) 1960-1974
(OVER-ALL) 1979-1974AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 259	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	12.4	.0	1.0	5.9	14.1	16.9	3.1	.0	2.1	2.1	57.6	42.4	290
06009	12.6	.0	1.7	5.2	12.9	18.9	6.6	1.0	1.0	1.0	61.2	38.8	286
12014	17.3	.0	.0	5.8	9.9	12.8	3.7	1.6	.4	.0	51.4	48.6	243
18021	17.5	.0	1.7	1.7	14.1	13.6	3.4	1.1	1.1	1.1	55.4	44.6	177
TOT	145	0	11	49	127	158	43	9	12	11	565	431	996
PCT	14.6	.0	1.1	4.9	12.8	15.9	4.3	.9	1.2	1.1	56.7	43.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	10.6	4.1	2.7	11.4	25.5	45.8	369
06009	10.7	4.1	6.0	10.7	25.2	43.3	365
12015	13.2	2.9	3.7	13.2	23.3	43.7	348
18021	11.6	3.9	7.0	16.5	21.4	39.6	285
TOT	157	51	65	174	328	592	1367
PCT	11.5	3.7	4.8	12.7	24.0	43.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	12.7	16.6	30.4	29.3	40.3	283
06009	12.9	17.2	31.5	31.5	36.9	279
12015	17.4	20.3	34.7	22.0	43.2	236
18021	18.5	22.0	36.9	24.4	38.7	168
TOT	144	180	318	264	384	966
PCT	14.9	18.6	32.9	27.3	39.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/94	.0	.0	.0	.0	1.0	.0	.0	.0	2	1.0
45/49	.0	.0	.0	.0	.5	.0	.5	.0	2	1.0
40/44	.0	.0	.0	.0	1.0	4.5	3.5	1.5	21	10.6
35/39	.0	.0	.0	1.5	3.0	8.0	9.5	16.6	77	38.7
30/34	.0	.0	.0	.0	4.5	3.0	14.1	15.1	73	36.7
25/29	.0	.0	.0	.0	1.0	4.5	2.5	4.0	24	12.1
TOTAL	0	0	0	3	22	40	60	74	199	100.0
PCT	.0	.0	.0	1.5	11.1	20.1	30.2	37.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.1	.4	.5	.0	.0
.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0
1.0	.9	.0	1.5	1.8	2.3	1.5	1.0	.0	.0
3.0	2.6	3.6	1.3	8.7	11.1	4.4	2.5	.0	1.5
6.9	1.5	3.3	2.5	1.9	6.3	4.9	8.9	.0	.5
2.3	.0	.4	.6	.0	.1	2.6	5.5	.0	.5
13.8	5.0	7.3	5.9	12.3	20.9	13.8	18.5	.0	2.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	52	46	43	36	27	23	17	35.4	351
06009	53	50	43	36	28	26	23	35.7	331
12015	52	47	41	34	27	21	20	33.4	310
18021	50	43	39	34	26	24	20	33.3	275
TOT	53	47	43	34	27	23	17	34.5	1267

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.6	9.7	25.8	24.2	38.7	84	62
06009	.0	.0	13.8	31.0	27.6	27.6	82	58
12015	.0	5.4	16.2	5.4	27.0	45.9	85	37
18021	.0	.0	4.7	9.3	44.2	41.9	87	43
TOT	0	3	22	40	60	75	84	200

PERIOD: (PRIMARY) 1960-1974
(OVER-ALL) 1879-1974

APRIL

AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.2	1.1	.3	16	.5	1.1
9/10	.0	.0	.0	.0	.0	.3	1.0	.6	.1	20	.7	1.3
7/8	.0	.0	.0	.0	.1	1.0	2.2	.1	.0	34	.8	2.6
5	.0	.0	.0	.0	.1	.4	.7	.0	.0	12	.2	1.0
4	.0	.0	.0	.0	.1	3.0	1.4	.1	.0	46	.8	3.9
3	.0	.0	.0	.0	2.1	4.5	.8	.0	.0	73	1.4	6.0
2	.0	.0	.0	.0	1.7	1.9	.1	.1	.0	38	1.0	2.8
1	.0	.0	.0	.2	6.7	3.5	.2	.1	.0	105	1.6	9.0
0	.0	.0	.1	4.4	.9	.0	.0	.0	.0	53	1.0	4.4
-1	.0	.4	3.8	8.6	1.7	.3	.2	.0	.0	148	2.0	13.0
-2	.0	.2	1.9	3.9	.9	.0	.0	.0	.0	68	.6	6.3
-3	.0	.3	4.6	4.1	.5	.0	.1	.1	.0	95	.8	8.8
-4	.0	.0	2.4	1.6	.5	.0	.0	.0	.0	45	.6	4.0
-5	.0	.9	4.0	2.1	.2	.1	.0	.0	.0	72	.6	6.7
-6	.1	1.6	2.3	1.0	.0	.0	.0	.0	.0	50	.3	4.8
-7/-8	.0	.0	1.3	.3	.2	.0	.1	.0	.0	19	.1	1.8
-9/-10	.0	.2	7.7	1.1	.1	.0	.1	.0	.0	40	.4	3.7
-11/-12	.0	.3	1.8	.3	.1	.1	.0	.0	.0	26	.3	2.3
-13/-14	.0	.4	.2	.3	.1	.0	.0	.0	.0	10	.1	.9
-15/-16	.3	.0	.3	.2	.3	.0	.0	.0	.0	11	.2	.9
-17/-18	.1	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	4	9	97	212	368	192	72	25	6	985	140	845
PCT	.4	.9	9.8	21.5	37.4	19.5	7.3	2.5	.6	100.0	14.2	85.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.3	.0	.0	.0	.9	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.5	.3	.0	.0	.0	.8	.2	.6	.5	.0	.0	.0	1.3
3-4	.0	.2	1.1	.5	.0	.0	1.7	.0	.8	1.1	.0	.0	.0	2.0
5-6	.0	.1	.5	.8	.3	.0	1.6	.0	.0	.3	.2	.0	.0	.5
7	.0	.0	.3	1.6	.3	.0	2.2	.2	.0	.2	.0	.0	.0	.6
8-9	.0	.0	.1	.7	.3	.0	1.1	.0	.0	.1	.2	.0	.0	.3
10-11	.0	.0	.2	.6	.2	.0	.9	.0	.2	.0	.2	.2	.0	.5
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.1	.5	.0	.6
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.2	.2	.5
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	2.9	4.6	1.1	.0	10.0	.3	2.2	2.2	.8	1.1	.3	7.1

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.3	.0	.0	.0	.9	.0	.5	.0	.0	.0	.0	.5
1-2	.0	1.1	.8	.0	.0	.0	1.9	.0	1.0	.7	.0	.0	.0	1.7
3-4	.0	.2	1.1	.0	.0	.0	1.3	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.3	.4	.2	.0	.0	.9	.0	.0	.4	.4	.2	.0	1.0
7	.0	.0	.5	.3	.1	.0	.9	.0	.0	.3	.7	.3	.0	1.3
8-9	.0	.0	.4	.1	.0	.0	.5	.0	.0	.3	.3	.2	.2	.8
10-11	.0	.1	.0	.0	.0	.0	.1	.0	.0	.2	.2	.2	.0	.6
12	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.3	.5	.0	.8	.0	.0	.0	.2	.4	.2	.7
17-19	.0	.2	.0	.3	.0	.0	.4	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	3.5	.9	1.1	.0	8.0	.0	1.5	2.4	2.1	1.4	.4	7.8

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.2	.0	.0	.0	.0	.2	.3	1.4	.7	.0	.0	.0	.0	2.4
1-2	.0	1.2	1.2	.0	.0	.0	2.5	.2	1.4	2.5	.0	.0	.0	.0	4.0
3-4	.0	.2	1.9	.1	.0	.0	2.2	.0	.7	4.9	.7	.0	.0	.0	6.3
5-6	.0	.0	1.1	1.0	.0	.0	2.0	.0	.5	2.9	.4	.0	.0	.0	3.8
7	.0	.3	.4	.9	.1	.0	1.7	.0	.8	.9	1.1	.8	.0	.0	2.2
8-9	.0	.0	.0	.1	.1	.0	.3	.0	.0	.8	.2	.8	.0	.0	.3
10-11	.0	.0	.2	.2	.2	.1	.6	.0	.0	.7	.1	.0	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.8	.0	.0	.8
17-19	.0	.0	.1	.2	.0	.0	.3	.0	.0	.8	.0	.0	.0	.0	.8
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.8	.0	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	4.8	2.7	.7	.1	10.2	.5	3.9	13.2	3.0	.1	.0	.0	20.8

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.3	.3	.0	.0	.0	.7	.0	.3	.2	.0	.0	.0	.0	.5	
1-2	.0	1.5	1.8	.0	.0	.0	3.3	.0	.3	.4	.0	.0	.0	.0	.7	
3-4	.0	.8	1.8	.3	.0	.0	2.9	.0	.5	1.6	1.0	.0	.0	.0	3.1	
5-6	.0	.5	3.2	1.3	.0	.0	4.9	.0	.2	.9	.7	.2	.0	.0	2.1	
7	.0	.0	.8	1.8	.0	.0	2.6	.0	.0	1.3	.5	.5	.0	.0	2.3	
8-9	.0	.0	.6	.6	.2	.0	1.4	.0	.0	.2	1.2	.7	.0	.0	2.1	
10-11	.0	.0	.3	.6	.0	.0	.9	.0	.0	.0	1.0	.0	.2	.0	1.1	
12	.0	.0	.1	.6	.0	.1	.8	.0	.0	.8	.6	.0	.8	.0	.7	
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.2	.5	.2	.7	.0	1.5	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
26-32	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.0	.0	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.2	8.9	5.7	.2	.1	18.1	.0	1.3	5.1	5.8	1.8	.9	14.8	96.8	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.5	4.4	1.9	.0	.0	.0	9.8	
1-2	.3	7.8	8.3	.0	.0	.0	16.4	
3-4	.0	3.4	14.2	2.5	.0	.0	20.1	
5-6	.0	1.7	9.6	4.9	.7	.0	16.9	
7	.2	.3	4.6	8.9	1.5	.2	13.7	
8-9	.0	.0	1.7	3.4	1.5	.2	6.8	
10-11	.0	.3	1.5	3.0	.7	.3	5.9	
12	.0	.0	.5	2.0	.3	.2	3.0	
13-16	.0	.0	.3	1.5	1.9	.8	4.6	
17-19	.0	.2	.2	.7	.8	.2	2.0	
20-22	.0	.0	.2	.2	.0	.0	.3	
23-25	.0	.0	.2	.0	.0	.0	.2	
26-32	.0	.0	.0	.3	.0	.0	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.1	18.1	43.1	25.5	7.4	1.9	100.0	592

PERIOD: (OVER-ALL) 1969-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	6.2	9.5	7.1	4.6	1.4	.7	.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	286	4
6-7	.0	.7	2.4	6.2	5.1	2.8	3.5	.7	1.2	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	210	7
8-9	.0	.4	1.3	1.1	3.3	1.2	2.2	1.2	2.8	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	135	9
10-11	.0	.3	.3	.8	.4	1.0	1.4	.2	1.3	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	61	10
12-13	.0	.0	.4	.5	.2	.4	1.0	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	32	10
>13	.0	.0	.0	.2	.0	.3	.2	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	11
INDEX	2.7	2.2	3.9	4.0	1.6	1.4	1.7	.5	.3	.7	.0	.0	.2	.0	.0	.0	.0	.0	.0	180	5
TOTAL	33	90	164	183	140	79	98	25	68	25	5	2	4	0	0	0	0	0	0	916	7
PCT	3.6	9.8	17.9	20.0	15.3	8.6	10.7	2.7	7.4	2.7	.5	.2	.4	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1875-1974

MAY

AREA 0026 URUP ISLAND
45.2N 151.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.8	.0	2.8	.0	2.8	.0	.0	8.3	.0	.0	43.4	1.8	.7	.0	45.7
NE	9.8	.0	4.5	.0	3.2	.0	.0	16.8	.7	.0	38.7	.7	.0	.0	43.1
E	9.5	.0	6.5	.0	1.0	.0	.0	16.4	.0	.0	40.8	.5	1.3	.0	41.1
SE	13.7	.0	4.6	.0	1.5	.0	.0	19.1	1.5	.0	46.7	1.7	.0	.0	30.9
S	7.0	.0	3.8	.0	2.4	.0	.0	12.8	2.4	.0	30.9	1.8	1.1	.0	50.9
SW	4.0	.6	2.0	.0	1.2	.0	.0	7.2	.6	.0	28.8	.6	2.0	.2	60.6
W	3.9	.0	1.3	.0	2.3	.0	.0	6.9	2.0	.0	18.4	.0	.0	.5	72.2
NW	4.2	.0	1.9	.0	6.3	.0	.0	12.4	2.5	.0	19.1	.0	.2	.0	65.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9	.0	1.9	.0	.0	.0	.0	3.7	1.9	.0	46.3	1.9	1.9	.0	44.4
TOT PCT	6.7	.1	3.4	.0	2.4	.0	.0	12.0	1.3	.0	33.6	.9	.8	.1	51.3
TOT OBS:	1181														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.7	.0	4.1	.0	1.2	.0	.0	9.6	.6	.0	31.8	.3	.6	.6	56.6
0600	7.0	.0	2.2	.0	2.2	.0	.0	10.2	2.2	.0	34.5	.6	1.6	.0	50.8
1200	8.9	.4	2.9	.0	2.1	.0	.0	14.3	1.1	.0	34.3	1.8	.0	.0	48.6
1800	6.0	.0	4.5	.0	4.5	.0	.0	14.7	1.1	.0	34.2	1.5	.8	.0	47.7
TOT PCT	6.6	.1	3.4	.0	2.4	.0	.0	12.0	1.2	.0	33.6	1.0	.7	.2	51.2
TOT OBS:	1202														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.5	3.7	3.8	.7	.0	.0	.0	9.9	10.6		10.7	8.5	7.5	9.5	7.9	14.4	12.1	9.0
NE	1.6	6.5	4.7	.9	.1	.0	.0	13.8	10.3		14.5	13.7	14.8	14.3	14.8	12.3	14.7	11.8
E	1.8	6.1	4.2	.9	.2	.0	.0	13.2	10.6		9.9	11.8	10.9	15.9	17.6	14.8	13.6	11.7
SE	.7	5.0	3.4	1.1	.2	.0	.0	10.3	11.9		9.9	11.3	10.2	8.5	5.2	11.5	11.8	13.4
S	.9	6.5	4.9	1.6	.2	.0	.0	13.8	12.3		14.0	15.8	16.3	12.9	12.9	10.8	15.8	12.4
SW	1.3	5.0	5.1	.6	.0	.0	.0	12.1	11.3		11.8	9.0	15.0	10.6	13.6	12.6	16.7	10.1
W	1.0	4.1	5.1	1.7	.1	.0	.0	12.0	13.0		15.4	9.9	13.9	10.9	17.6	10.2	4.8	12.2
NW	1.3	4.1	4.9	1.0	.0	.0	.0	10.9	12.0		10.7	13.5	6.6	10.3	8.3	9.8	7.0	15.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0		3.1	4.6	4.8	7.1	2.1	3.6	3.5	3.7
TOT OBS	184	524	494	109	10	0	1281		11.0		159	195	147	168	145	165	114	188
TOT PCT	14.4	40.9	39.4	8.5	.8	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	06	12
N	3.8	3.7	2.1	.2	.0		9.9	10.6	9.5	8.6	11.4	10.2
NE	4.8	6.8	2.0	.2	.0		13.8	10.3	14.1	14.5	13.5	12.9
E	5.0	5.4	2.3	.5	.0		13.2	10.6	10.9	13.6	16.1	12.4
SE	2.9	4.9	2.0	.5	.0		10.3	11.9	10.7	9.3	8.5	12.8
S	2.9	7.2	3.3	.4	.0		13.8	12.3	15.0	14.5	11.8	13.7
SW	3.0	6.4	2.5	.2	.0		12.1	11.3	10.2	12.6	13.1	12.6
W	2.5	6.4	2.4	.7	.0		12.0	13.0	12.4	12.3	13.6	9.4
NW	2.8	4.8	3.0	.3	.0		10.9	12.0	13.3	8.6	9.1	12.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.1						4.1	.0	4.0	6.0	2.9	3.6
TOT OBS	409	584	250	38	0	1281		11.0	354	315	310	302
TOT PCT	31.9	45.6	19.5	3.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1875-1974

MAY

AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	4.0	11.6	40.1	34.2	9.3	.8	.0	11.1	100.0	354
0600Z	6.0	7.6	38.4	36.5	10.5	1.0	.0	11.6	100.0	315
1200Z	2.9	9.7	39.4	39.0	8.4	.6	.0	11.3	100.0	310
1800Z	3.6	11.9	46.0	32.1	5.6	.7	.0	10.0	100.0	302
TOT	53	131	524	454	109	10	0	11.0		1281
PCT	4.1	10.2	40.9	35.4	8.5	.8	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	.7	.1	1.3	5.6		7.1
NE	.2	.3	1.2	9.4		7.6
E	.3	.1	1.2	10.4		7.6
SE	.8	.0	.4	9.4		7.4
S	3.6	.6	1.8	9.2		5.9
SW	3.4	1.6	2.6	7.8		5.6
W	3.1	2.3	3.8	6.3		5.4
NW	2.0	.6	1.6	4.8		5.8
VAR	.0	.0	.0	.0		.0
CALM	.4	.2	.2	2.8		6.9
TOT OBS	81	33	79	371	564	6.4
TOT PCT	14.4	5.9	14.0	65.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.6	.0	.5	.7	1.2	1.2	.5	.3	.2	.1	1.5	
NE	2.5	.0	.4	1.8	2.1	1.6	.9	.6	.4	.0	.8	
E	5.1	.7	.1	1.6	1.8	1.7	.3	.2	.0	.0	1.1	
SE	4.7	.0	.5	1.3	1.3	.6	.8	.0	.2	.0	1.2	
S	4.6	.2	.0	.5	2.0	1.8	.7	.4	.0	.1	6.9	
SW	3.9	.0	.4	.6	1.1	2.1	.3	.1	.2	.4	6.3	
W	1.2	.0	.0	1.1	2.0	2.9	.8	.0	.3	.2	7.0	
NW	.3	.0	.2	.8	2.4	1.4	.8	.2	.0	.2	2.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.4	.0	.0	.0	.2	.7	.4	.0	.2	.0	.7	
TOT OBS	142	2	12	47	79	79	31	10	8	6	148	564
TOT PCT	25.2	.4	2.1	8.3	14.0	14.0	5.5	1.8	1.4	1.1	26.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.9	2.4	2.6	2.6	2.6	2.6	2.6	2.6
>5000	3.0	3.8	4.4	4.4	4.4	4.4	4.4	4.4
>3500	5.1	8.2	9.6	9.6	9.6	9.8	9.8	9.8
>2000	10.6	17.1	22.3	22.7	23.0	23.6	23.6	23.6
>1000	14.0	27.4	35.8	36.3	36.6	37.5	37.5	37.5
>600	15.9	32.3	42.9	44.0	45.0	46.1	46.1	46.1
>300	16.1	32.8	44.5	45.9	46.9	48.2	48.2	48.2
>150	16.1	33.0	44.7	46.2	47.3	48.5	48.5	48.5
>0	16.2	33.9	47.6	51.7	54.1	59.7	72.1	74.2
TOTAL	93	194	273	296	310	342	413	425

TOTAL NUMBER OF OBS: 573

PCT FREQ NH <5/8: 25.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.8	4.8	6.0	4.1	3.2	3.6	5.3	6.3	34.5	24.4	603

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1875-1974

MAY

AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.8	.5	.2	.4	.2	.2	.2	.4	.0	.1	2.6	
	NO PCP	2.8	3.1	3.8	3.9	3.5	3.4	1.7	1.0	.0	1.4	24.6	
	TOT %	3.2	3.7	3.9	4.3	3.7	3.6	1.9	1.4	.0	1.5	27.2	
1/2<1	PCP	.2	.2	.5	.3	.2	.1	.2	.3	.0	.0	1.9	
	NO PCP	.4	.4	.4	.4	.2	.1	.2	.2	.0	.3	2.7	
	TOT %	.6	.6	.9	.7	.4	.2	.4	.5	.0	.3	4.6	
1<2	PCP	.1	.2	.3	.3	.3	.0	.1	.1	.0	.1	1.5	
	NO PCP	.4	.5	.3	.3	.4	.3	.2	.3	.0	.2	2.9	
	TOT %	.6	.7	.6	.6	.8	.3	.3	.4	.0	.3	4.4	
2<5	PCP	.0	.7	.7	.5	.8	.5	.3	.4	.0	.0	3.8	
	NO PCP	.9	1.5	1.1	1.2	1.2	1.1	.7	.3	.0	.3	8.0	
	TOT %	.9	2.2	1.8	1.7	2.0	1.6	1.0	.7	.0	.3	11.8	
5<10	PCP	.0	.4	.3	.6	.3	.1	.1	.1	.0	.0	1.9	
	NO PCP	1.8	2.0	3.0	1.5	2.9	3.5	3.8	2.8	.0	.5	21.4	
	TOT %	1.8	2.4	3.3	2.1	3.2	3.6	3.7	2.9	.0	.5	23.3	
10+	PCP	.0	.0	.2	.2	.0	.0	.8	.8	.0	.0	.4	
	NO PCP	2.7	2.4	2.2	1.6	3.8	4.3	5.6	4.1	.0	1.6	28.3	
	TOT %	2.7	2.4	2.4	1.7	3.8	4.3	5.6	4.1	.0	1.6	28.7	
TOT OBS													1178
TOT PCT		9.2	11.9	13.0	11.1	13.8	13.6	12.8	10.0	.0	4.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.6	.6	.8	.2	.3	.3	.3	.1	.0	1.3	4.5	
	4-10	.5	2.3	2.0	1.9	1.8	1.5	1.1	.9	.0		13.0	
	11-21	.9	1.8	1.6	1.4	1.4	1.0	.9	.8	.0		10.1	
	22+	.1	.6	.2	.2	.3	.1	.0	.8	.0		1.4	
	TOT %	4.1	5.3	4.5	3.7	3.7	2.9	1.8	1.8	.0	1.3	29.1	
1/2<1	0-3	.3	.2	.0	.1	.0	.0	.8	.1	.0	.3	1.0	
	4-10	.2	.2	.5	.1	.2	.3	.5	.3	.0		2.3	
	11-21	.3	.2	.3	.1	.2	.1	.2	.2	.0		1.6	
	22+	.0	.8	.2	.3	.1	.0	.0	.1	.0		1.7	
	TOT %	.8	.6	1.0	.6	.5	.4	.7	.8	.0	.3	5.7	
1<2	0-3	.2	.2	.1	.8	.1	.0	.1	.1	.0	.2	1.0	
	4-10	.3	.6	.4	.0	.6	.2	.2	.5	.0		2.4	
	11-21	.4	.4	.3	.8	.3	.4	.1	.4	.0		2.2	
	22+	.1	.8	.2	.1	.1	.8	.2	.2	.0		1.0	
	TOT %	.9	1.3	1.0	.8	1.0	.6	.6	1.3	.0	.2	7.7	
2<5	0-3	.8	.1	.4	.1	.1	.2	.2	.2	.0	.3	1.6	
	4-10	.1	1.0	1.2	.9	1.1	.4	.1	.4	.0		5.3	
	11-21	.2	.9	.5	.6	.8	.9	.6	.4	.0		4.9	
	22+	.1	.2	.1	.4	.5	.8	.1	.0	.0		1.5	
	TOT %	.4	2.2	2.2	2.0	2.5	1.7	1.0	1.0	.0	.3	13.2	
5<10	0-3	.1	.1	.3	.1	.1	.4	.2	.3	.0	.5	2.2	
	4-10	.8	1.2	1.2	.7	1.3	1.3	.7	.6	.0		7.7	
	11-21	.5	.8	.8	.8	1.0	1.1	1.7	1.3	.0		7.8	
	22+	.1	.0	.4	.2	.4	.1	.7	.3	.0		2.2	
	TOT %	1.5	2.1	2.7	1.8	2.7	2.9	3.2	2.5	.0	.5	19.9	
10+	0-3	.2	.8	.3	.1	.3	.3	.2	.6	.0	1.5	3.5	
	4-10	.9	1.3	.9	.6	1.5	1.2	1.5	1.4	.0		9.3	
	11-21	.9	.5	.8	.6	1.1	1.7	2.3	1.4	.0		9.3	
	22+	.2	.1	.1	.1	.5	.3	.9	.3	.0		2.4	
	TOT %	2.2	1.9	2.1	1.4	3.3	3.6	4.8	3.7	.0	1.5	24.5	
TOT OBS													1254
TOT PCT		9.9	13.4	13.3	10.4	13.8	12.1	12.1	10.9	.0	4.1	100.0	

MAY

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1974-1974AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 209	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY MGT	TOTAL OBS
00003	21.0	1.1	2.8	8.3	14.9	13.8	7.2	3.3	3.9	1.1	77.3	22.7	181
06004	24.4	.0	1.2	5.8	12.8	20.9	4.7	.0	.6	1.2	71.5	28.5	172
12015	32.1	.0	1.5	9.7	11.9	7.5	6.0	1.5	.0	.7	70.9	29.1	134
18021	26.8	.0	3.1	11.3	15.5	9.3	2.1	2.1	1.0	1.0	72.2	27.8	97
TOT PCT	149 25.5	2 .3	12 2.1	49 8.4	80 13.7	80 13.7	31 5.3	10 1.7	9 1.5	6 1.0	428 73.3	156 26.7	584 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	26.8	4.6	5.6	12.9	19.5	30.6	393
06009	28.9	4.4	9.2	11.4	21.4	24.7	360
12015	32.4	5.9	8.3	13.0	20.4	20.1	339
18021	29.4	6.9	7.8	15.9	18.1	21.9	320
TOT PCT	414 29.3	76 5.4	108 7.6	187 13.2	261 19.9	348 24.6	1414 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	21.2	27.9	46.4	34.1	19.6	179
06009	25.1	29.8	46.2	26.9	26.9	171
12015	32.3	35.4	52.8	22.8	24.4	127
18021	27.1	31.3	54.2	21.9	24.0	96
TOT PCT	148 25.8	176 30.7	281 49.0	157 27.4	135 23.6	573 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.4	.7	.4	.0	4	1.5
45/49	.0	.0	.0	.4	1.8	1.8	3.3	2.2	26	9.5
40/44	.0	.0	.0	.0	.4	3.6	9.5	12.7	72	26.2
35/39	.0	.0	.0	.0	.7	3.3	9.5	40.0	147	53.5
30/34	.0	.0	.0	.0	.0	.7	2.9	5.8	26	9.5
TOTAL	0	0	0	1	9	28	70	167	275	100.0
PCT	.0	.0	.0	.4	3.3	10.2	25.5	60.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.7	.0	.0	.4	.0	.0	.0	.0	.4
.4	.3	1.1	.8	.6	3.7	1.3	1.0	.0	.0
1.5	1.9	3.9	2.0	6.1	5.9	4.5	.0	.0	.4
4.7	7.5	6.9	9.5	5.7	5.5	7.4	6.3	.0	.0
1.6	.5	1.5	.4	.6	.3	2.3	2.4	.0	.0
8.2	10.8	13.4	12.7	13.5	13.4	15.7	9.6	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	61	54	48	39	32	30	28	39.7	383
06009	58	52	46	39	34	32	28	39.1	354
12015	59	48	43	37	32	30	28	37.2	340
18021	59	52	45	37	32	31	30	37.4	323
TOT	61	52	46	37	32	30	28	38.4	1400

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	4.8	11.9	25.0	58.3	89	84
06009	.0	1.4	5.4	12.2	27.0	54.1	88	74
12015	.0	.0	1.5	9.0	25.4	64.2	91	67
18021	.0	.0	.0	5.6	25.9	68.5	92	54
TOT	0	1	9	28	72	169	90	279

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1875-1974

MAY

TABLE 17

AREA 0026 URUP ISLAND
46.2N 151.2E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP CIP	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	N FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.2	.1		3	.1	.2
14/16	.0	.0	.0	.0	.0	.5	.6	.2		13	.3	.9
11/13	.0	.0	.0	.0	.2	1.9	.6	.2		30	.8	2.0
9/10	.0	.0	.0	.1	1.1	2.1	.3	.0		38	.6	3.0
7/8	.0	.0	.0	.6	3.0	1.1	.0	.0		50	1.4	3.3
6	.0	.0	.0	.5	.8	.5	.0	.0		18	.6	1.1
5	.0	.0	.0	3.2	4.2	1.0	.0	.0		90	2.6	5.8
4	.0	.0	.8	9.3	4.3	.5	.0	.0		159	5.8	9.2
3	.0	.0	1.4	2.2	.6	.1	.0	.0		48	1.5	3.0
2	.0	.2	6.2	8.9	2.3	.1	.3	.0		190	7.2	10.8
1	.0	.0	1.9	2.5	.4	.1	.0	.0		51	1.4	3.4
0	.0	.8	8.9	5.1	.7	.1	.0	.0		165	5.3	10.3
-1	.0	.2	1.8	1.4	.2	.1	.0	.0		39	.8	2.9
-2	.0	1.0	3.2	1.8	.4	.0	.0	.0		68	2.5	3.9
-3	.0	.1	1.2	.6	.0	.0	.0	.0		20	.7	1.2
-4	.0	.6	1.7	.7	.1	.1	.1	.0		34	.9	2.3
-5	.0	.7	.8	.6	.0	.0	.0	.0		22	.8	1.3
-6	.0	.1	.4	.0	.1	.0	.0	.0		6	.1	.5
-7/-8	.4	.5	.2	.0	.0	.0	.0	.0		11	.7	.4
-9/-10	.0	.0	.1	.0	.1	.0	.0	.0		2	.0	.2
-11/-13	.0	.1	.0	.1	.0	.0	.0	.0		2	.1	.1
-14/-16	.0	.0	.0	.0	.1	.0	.0	.0		1	.1	.0
TOTAL	4		304		199		19		1	1060	363	697
PCT	.4	4.2	28.7	37.4	18.8	8.1	1.8	.6	.1	100.0	34.2	65.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	1.4	.0	.0	.0	.0	1.7	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	1.3	.7	.0	.0	.0	2.0	.0	1.7	1.0	.0	.0	.0	2.8
3-4	.0	.0	.9	.0	.0	.0	.9	.0	.6	2.5	.0	.0	.0	3.1
5-6	.0	.0	.3	.0	.0	.0	.5	.0	.6	1.3	.6	.0	.0	2.5
7	.0	.0	.5	.0	.0	.0	.5	.0	.3	.1	.3	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.0	2.6	.0	.0	.0	5.9	.0	4.4	5.0	.9	.0	.0	10.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.5	.3	.0	.0	.0	1.2	.1	.1	.0	.0	.0	.0	.2
1-2	.0	1.2	1.0	.0	.0	.0	2.3	.0	.9	1.3	.0	.0	.0	2.3
3-4	.0	.3	1.5	.0	.0	.0	1.8	.0	.3	1.3	.0	.0	.0	1.6
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.3	.9	.6	.0	.0	1.8
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.3	.4	.0	.0	.7
8-9	.0	.0	.2	.3	.6	.0	1.1	.0	.0	.0	1.2	.3	.0	1.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.0	5.3	.8	.6	.0	9.2	.1	1.8	3.9	2.4	.3	.0	8.3

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.2	.0	.0	.0	.0		.2	.0	.3	.0	.0	.0	.0		.3
1-2	.0	1.8	1.2	.0	.0	.0		3.1	.3	2.8	2.0	.0	.0	.0		5.1
3-4	.0	1.6	2.2	.8	.0	.0		4.6	.0	.8	3.5	.2	.0	.0		4.5
5-6	.0	.3	2.6	1.2	.2	.0		4.2	.0	.3	1.7	.0	.1	.0		2.1
7	.0	.0	1.2	1.4	.3	.0		2.8	.0	.3	2.3	.9	.0	.0		3.5
8-9	.0	.0	.3	1.1	.0	.0		1.4	.0	.0	.3	.4	.0	.0		.7
10-11	.0	.0	.0	.2	.0	.0		.2	.0	.0	.3	.1	.0	.0		.4
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0		.1
13-16	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.4	.0	.0		.4
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	3.9	7.4	4.9	.5	.0		16.8	.3	4.5	10.2	1.9	.1	.0		17.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.3	.8	.3	.0	.0	.0		1.4	.3	.7	.0	.0	.0	.0		1.0	
1-2	.0	2.0	2.4	.0	.0	.0		4.4	.3	.9	1.4	.0	.0	.0		2.6	
3-4	.0	1.0	3.3	1.0	.0	.0		5.3	.0	.7	.9	.0	.0	.0		1.5	
5-6	.0	.0	1.2	.3	.0	.0		1.5	.0	.0	1.5	.3	.0	.0		1.8	
7	.0	.3	.9	1.7	.3	.0		3.4	.0	.0	.7	.4	.1	.0		1.1	
8-9	.0	.0	.9	.6	.0	.0		1.5	.0	.0	.0	.3	.0	.0		.3	
10-11	.0	.0	.0	.6	.0	.0		.6	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.2	.0	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.0	.0	.0		.3	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	4.1	9.2	4.2	.5	.0		18.2	.6	2.3	4.7	.9	.1	.0		8.7	94.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.0	5.2	.6	.0	.0	.0	12.8	
1-2	.6	12.8	11.0	.0	.0	.0	24.4	
3-4	.0	5.2	16.0	2.0	.0	.0	23.3	
5-6	.0	1.5	11.6	2.9	.3	.0	16.3	
7	.0	.9	6.7	4.9	.9	.0	13.4	
8-9	.0	.0	1.7	3.8	.9	.0	6.4	
10-11	.0	.0	.3	1.2	.0	.0	1.5	
12	.0	.3	.3	.6	.0	.0	1.2	
13-16	.0	.0	.3	.6	.0	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.6	25.9	48.5	16.0	2.0	.0	100.0	344

PERIOD: (OVER-ALL) 1961-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	6.9	11.8	5.6	3.4	2.8	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	171	4
6-7	.2	2.1	4.3	7.7	4.9	2.3	2.8	.8	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	134	6
8-9	.0	.6	1.7	4.7	3.8	3.8	1.1	.8	1.1	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	95	7
10-11	.0	.6	.4	1.9	.9	1.1	.0	.6	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	32	7
12-13	.0	.0	.9	.6	.4	.0	.0	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	13	7
>13	.0	.0	.0	.2	.0	.0	.0	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	4	14
INDEX	3.4	1.9	3.9	2.3	2.3	.9	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	4
TOTAL	24	64	123	122	83	58	24	15	12	2	3	3	0	0	0	0	0	0	0	533	5
PCT	4.5	12.0	23.1	22.9	15.6	10.9	4.5	2.8	2.3	.4	.6	.6	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1902-1974

JUNE

AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	5.0	.0	3.1	.0	.0	.0	.0	8.1	.0	.0	48.4	1.2	.0	.0	42.2
NE	9.8	.0	1.8	.0	.0	.0	.0	11.6	5.9	.0	44.3	2.7	.9	.0	34.5
E	13.0	.5	2.3	.0	.0	.0	.0	15.9	1.8	.0	48.5	.0	.3	.0	33.3
SE	13.4	.1	5.6	.0	.0	.0	.0	19.2	.9	.0	49.6	.9	1.0	.0	28.5
S	5.7	.0	1.1	.0	.0	.0	.0	6.9	.3	.0	64.9	.8	.3	.0	26.8
SW	1.6	.0	1.7	.0	.0	.0	.0	3.3	.2	.0	61.7	.8	1.6	.0	32.6
W	2.4	.0	2.7	.0	.0	.0	.0	5.2	.0	.0	55.6	2.1	.9	.0	36.2
NW	3.3	.0	.0	.0	.0	.0	.0	3.3	.0	.0	49.6	1.4	.0	.0	45.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.0	.0	.0	.0	.0	.0	.0	7.0	.0	.0	57.9	1.8	.0	.0	33.3
TOT PCT	7.5	.1	2.4	.0	.0	.0	.0	10.0	1.0	.0	54.2	1.1	.7	.0	33.0
TOT OBS:	1165														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00Z03	8.1	.0	4.5	.0	.0	.0	.0	12.6	.6	.0	53.0	.9	.6	.0	.0	32.3
06Z09	6.8	.3	1.2	.0	.0	.0	.0	8.4	1.2	.0	53.3	1.9	1.2	.0	.0	34.1
12Z15	6.7	.0	1.4	.0	.0	.0	.0	8.1	1.4	.0	55.8	.4	.4	.0	.0	33.9
18Z21	7.6	.0	2.4	.0	.0	.0	.0	10.0	1.2	.0	55.8	1.2	.4	.0	.0	31.5
TOT PCT	7.3	.1	2.4	.0	.0	.0	.0	9.8	1.1	.0	54.3	1.1	.7	.0	.0	33.0
TOT OBS:	1191															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.0	3.7	2.8	.3	.1	.0		7.8	10.2	7.5	9.4	5.6	8.9	7.3	7.2	7.2	7.5	
NE	1.7	4.1	2.3	.6	.0	.0		8.8	9.6	7.9	9.3	11.6	7.2	14.0	7.9	7.9	6.6	
E	1.5	5.8	3.3	.7	.1	.0		11.3	10.1	14.3	10.5	12.7	9.2	11.8	11.5	14.4	8.8	
SE	3.0	10.9	6.4	.5	.0	.0		20.9	9.5	18.5	28.6	19.0	21.8	16.3	19.6	14.9	24.2	
S	2.6	9.6	6.4	.6	.0	.0		19.3	9.6	23.8	15.4	16.0	18.6	16.9	20.9	20.2	23.4	
SW	1.0	8.8	2.0	.3	.0	.0		13.0	8.5	10.3	12.7	18.8	11.2	16.7	13.5	16.1	8.3	
W	1.1	3.3	1.3	.2	.0	.0		6.2	8.8	9.1	6.0	3.2	9.0	3.0	6.0	6.5	5.2	
NW	1.3	4.5	2.2	.3	.0	.0		8.3	9.1	6.3	7.5	7.6	7.9	7.5	10.4	7.0	11.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.4							4.4	.0	2.4	2.5	5.6	6.3	6.5	2.9	5.8	4.4	
TOT OBS	212	608	339	41	2	0	1198		9.0	124	204	108	206	123	170	104	159	
TOT PCT	17.7	50.8	28.0	3.4	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	2.9	3.6	1.3	.1	.0		7.8	10.2	8.7	7.7	7.3	7.4	
NE	4.0	3.4	1.1	.4	.0		8.8	9.6	8.8	8.7	10.5	7.1	
E	3.9	5.4	2.0	.1	.0		11.3	10.1	12.0	10.4	11.6	11.0	
SE	8.6	8.6	3.4	.2	.0		20.9	9.5	23.6	20.9	18.2	20.5	
S	7.1	9.7	2.3	.2	.0		19.3	9.6	18.6	17.7	19.2	22.1	
SW	5.9	6.1	1.0	.0	.0		13.0	8.5	11.8	13.8	14.8	11.4	
W	2.7	2.7	.8	.0	.0		6.2	8.8	7.2	7.0	4.8	5.7	
NW	2.9	4.5	.9	.0	.0		8.3	9.1	7.0	7.8	9.2	9.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.4						4.4	.0	2.4	6.1	4.4	4.9	
TOT OBS	507	527	153	11	0	1198		9.0	328	314	293	263	
TOT PCT	42.3	44.0	12.8	.9	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1902-1974

JUNE

AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
0000	2.4	14.9	50.3	28.4	3.7	.3	.0	9.2	100.0	328	
0600	6.1	12.1	49.7	29.0	3.2	.0	.0	9.1	100.0	314	
1200	4.4	14.3	48.5	29.0	3.4	.3	.0	9.0	100.0	293	
1800	4.9	11.4	55.1	25.1	3.4	.0	.0	8.8	100.0	263	
TOT	53	159	608	335	41	2	0	9.0		1198	
PCT	4.4	13.3	50.8	28.0	3.4	.2	.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.3	.4	.6	5.5		7.2
NE	.9	.2	.8	8.9		7.1
E	.7	.2	.8	12.5		7.5
SE	2.6	.6	.8	13.3		8.6
S	1.4	.5	1.1	14.3		7.1
SW	2.2	.1	.8	11.2		6.7
W	.7	.1	1.9	4.9		6.9
NW	1.0	.2	.8	4.0		6.3
VAR	.0	.0	.0	.0		.0
CALM	1.0	.0	.6	2.9		6.6
TOT OBS	55	12	42	398	507	6.9
TOT PCT	10.8	2.4	8.3	78.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	3.6	.0	.0	.3	.5	1.0	.1	.0	.1	.0	1.1	
NE	3.4	.2	.1	1.1	1.4	2.9	.3	.0	.0	.0	1.3	
E	5.4	.2	1.0	1.9	3.3	1.1	.3	.2	.0	.0	.9	
SE	7.1	.0	.7	1.7	3.0	1.0	.0	.2	.0	.0	3.6	
S	10.5	.0	.0	.8	2.0	1.2	.1	.0	.0	.4	2.3	
SW	6.8	.2	.8	.9	1.5	1.3	.2	.0	.0	.0	2.5	
W	3.0	.1	.0	.4	1.3	.7	.2	.0	.0	.2	1.6	
NW	1.7	.2	.4	.4	1.2	.6	.0	.0	.0	.0	1.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.8	.0	.2	.2	.6	.4	.0	.0	.2	.0	1.2	
TOT OBS	224	5	16	40	75	52	7	2	2	3	81	507
TOT PCT	44.2	1.0	3.2	7.9	14.8	10.3	1.4	.4	.4	.6	16.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.6	.8	.8	.8	.8	1.0	1.0	1.0
= OR >5000	.8	1.0	1.0	1.0	1.2	1.3	1.3	1.3
= OR >3500	1.7	2.1	2.3	2.3	2.5	2.7	2.7	2.7
= OR >2000	6.0	10.2	12.1	12.9	13.3	13.5	13.5	13.5
= OR >1000	10.8	20.4	25.6	27.0	27.7	28.7	28.9	28.9
= OR >600	12.9	25.4	32.8	34.3	35.3	36.4	36.8	36.8
= OR >300	12.9	26.4	35.1	37.0	38.2	39.5	39.9	39.9
= OR >150	12.9	26.8	35.5	37.6	38.9	40.5	40.8	40.8
= OR >0	13.1	27.7	37.4	41.6	45.9	50.0	50.2	50.2
TOTAL	68	144	194	216	238	301	416	439

TOTAL NUMBER OF OBS: 519

PCT FREQ NM <5/8: 15.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.6	2.2	3.2	.7	1.5	2.2	3.7	4.6	30.7	938

JUNE

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1902-1974AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	.2	.1	1.1	.4	*	.1	.1	.0	.1	2.3	
	NO PCP	2.2	3.1	4.0	7.8	10.0	6.7	2.9	2.8	.0	1.8	41.3	
	TOT %	2.4	3.3	4.2	8.9	10.3	6.7	3.0	2.9	.0	1.9	43.6	
1/2<1	PCP	.*	.2	.4	.6	.2	*	.0	.1	.0	.0	1.6	
	NO PCP	.3	.4	.8	.6	.7	.6	.5	.4	.0	.2	4.2	
	TOT %	.3	.6	1.2	1.1	.9	.6	.5	.5	.0	.2	5.8	
1<2	PCP	.2	.3	.3	1.0	.2	.3	.1	.1	.0	.2	2.6	
	NO PCP	.3	.5	.3	.3	.5	.7	.4	.4	.0	.2	3.5	
	TOT %	.5	.8	.6	1.3	.7	.9	.5	.5	.0	.4	6.2	
2<5	PCP	.1	*	.3	.9	.4	.0	.1	.0	.0	.1	1.9	
	NO PCP	.5	.8	.9	.8	1.3	.8	.3	.5	.0	.3	6.3	
	TOT %	.6	.9	1.3	1.7	1.6	.8	.4	.5	.0	.4	8.2	
5<10	PCP	.0	.0	.2	.1	.2	.1	.1	.0	.0	.0	.7	
	NO PCP	1.6	1.3	1.7	2.9	1.9	1.7	1.1	1.9	.0	.2	14.3	
	TOT %	1.6	1.3	2.0	3.0	2.1	1.8	1.2	1.9	.0	.2	15.0	
10+	PCP	.0	.4	.5	*	.0	.0	.0	.0	.0	.0	.9	
	NO PCP	1.6	2.1	2.2	3.0	3.2	3.2	1.7	1.7	.0	1.6	20.3	
	TOT %	1.6	2.4	2.7	3.0	3.2	3.2	1.7	1.7	.0	1.6	21.2	
TOT OBS													1133
TOT PCT		7.1	9.2	11.9	19.1	16.6	14.1	7.2	8.1	.0	4.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.5	1.0	.6	1.9	1.3	.4	.6	.5	.0	1.8	8.6	
	4-10	.8	1.3	2.0	5.5	5.6	4.8	1.1	1.8	.0		23.0	
	11-21	.9	.5	1.1	2.0	3.7	1.3	.6	.5	.0		10.6	
	22+	.2	.0	*	.1	.2	.3	.1	.0	.0		.9	
	TOT %	2.4	2.9	3.8	9.5	10.7	6.8	2.4	2.8	.0	1.8	43.1	
1/2<1	0-3	*	*	*	.1	.2	.1	.0	.1	.0	.2	.8	
	4-10	.3	.5	.6	.4	.4	.5	.2	*	.0		3.0	
	11-21	.2	.0	.4	.6	.3	.1	.3	.3	.0		2.2	
	22+	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.5	.7	1.2	1.1	1.0	.7	.5	.4	.0	.2	6.2	
1<2	0-3	.0	.1	.0	.2	.1	.1	.1	.2	.0	.3	1.0	
	4-10	.7	.4	.6	1.2	.5	.4	.4	.5	.0		4.7	
	11-21	.6	.3	.2	.3	.3	.4	.2	.5	.0		2.7	
	22+	.1	*	.1	.1	.0	.0	.0	.0	.0		.3	
	TOT %	1.3	.8	.9	1.8	.9	.8	.7	1.1	.0	.3	8.7	
2<5	0-3	*	.1	.1	*	.3	*	.1	.1	.0	.4	1.3	
	4-10	.4	.3	.8	1.2	1.0	.6	.4	.4	.0		5.1	
	11-21	.5	.8	.4	1.3	.7	.2	.1	.1	.0		4.1	
	22+	.1	.2	.1	.2	.3	.0	.1	.3	.0		1.3	
	TOT %	1.0	1.3	1.4	2.7	2.3	.9	.7	.9	.0	.4	11.7	
5<10	0-3	.1	.1	.2	.2	.2	*	.1	.1	.0	.2	1.2	
	4-10	.8	.6	.5	1.3	1.0	1.1	.5	.9	.0		6.6	
	11-21	.6	.2	.5	1.1	.6	.3	.3	.7	.0		4.4	
	22+	.0	.0	.3	.1	*	.0	.0	.0	.0		.4	
	TOT %	1.5	.9	1.5	2.7	1.9	1.4	.9	1.7	.0	.2	12.6	
10+	0-3	.3	.3	.4	.4	.4	.3	.3	.3	.0	1.1	3.9	
	4-10	.9	.9	1.3	1.0	1.4	1.7	.6	1.0	.0		8.8	
	11-21	.1	.6	.6	1.2	.8	.6	.2	.2	.0		4.3	
	22+	.0	.3	.1	*	.1	.0	.0	.0	.0		.6	
	TOT %	1.4	2.1	2.4	2.7	2.7	2.6	1.1	1.5	.0	1.1	17.6	
TOT OBS													1158
TOT PCT		8.0	8.7	11.2	20.6	19.4	13.2	6.3	8.5	.0	4.1	100.0	

JUNE

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1902-1974AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 209	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	42.9	.6	5.4	6.5	13.7	14.3	1.2	.6	.0	.6	85.7	14.3	168
06009	35.0	.7	2.9	10.0	18.6	10.0	1.4	.0	.7	.0	79.3	20.7	140
12015	51.5	1.5	1.5	6.9	10.8	7.7	1.5	.0	.0	.0	81.5	18.5	130
18021	46.7	1.1	1.1	7.6	18.5	8.7	1.1	1.1	1.1	2.2	89.1	10.9	92
TOT	291	5	16	41	80	56	7	2	2	3	443	87	530
PCT	43.6	.9	3.0	7.7	15.1	10.6	1.3	.4	.4	.6	83.6	16.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	43.2	4.5	9.9	12.0	14.9	15.5	375
06009	43.6	5.4	6.3	12.5	11.1	21.1	351
12015	45.4	7.1	8.0	10.1	12.6	16.9	326
18021	38.8	6.6	8.8	9.9	15.4	20.5	272
TOT	569	77	109	149	178	243	1325
PCT	42.9	5.8	8.2	11.2	13.4	18.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	43.0	53.9	68.5	20.6	10.9	165
06009	35.0	44.5	60.6	24.1	15.3	137
12015	52.0	57.6	72.8	13.6	13.6	125
18021	46.7	53.3	66.3	23.9	9.8	92
TOT	227	271	348	106	65	519
PCT	43.7	52.2	67.1	20.4	12.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.3	.6	.0	.3	4	1.2
50/54	.0	.0	.0	.0	.8	2.4	3.0	2.1	27	8.0
45/49	.0	.0	.0	.0	1.8	2.7	6.8	13.0	81	24.0
40/44	.0	.0	.0	.0	1.2	3.6	8.3	29.3	143	42.3
35/39	.0	.0	.0	.0	.0	.3	3.6	19.5	79	23.4
30/34	.0	.0	.0	.0	.0	.0	.0	1.2	4	1.2
TOTAL	0	0	0	0	12	32	73	221	338	100.0
PCT	.0	.0	.0	.0	3.6	9.5	21.6	65.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	.0	.3	.9	.0	.0	.0	.0
50/54	.0	.5	2.4	.1	1.7	1.5	1.3	.3	.0	.0
45/49	.5	1.7	3.8	5.7	5.2	3.0	1.0	2.2	.0	.9
40/44	3.6	6.6	6.1	7.6	7.5	6.1	2.4	1.4	.0	.9
35/39	2.9	3.3	2.5	3.6	2.4	2.7	2.2	2.7	.0	1.2
30/34	.0	.0	.3	.0	.3	.1	.4	.1	.0	.0
TOTAL	7.0	12.1	15.2	17.0	17.4	14.3	7.5	6.7	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	63	57	55	44	37	34	32	44.4	372
06009	69	60	54	43	37	35	32	44.0	354
12015	65	54	50	41	36	33	30	41.5	332
18021	60	54	50	41	36	32	30	41.6	275
TOT	69	59	54	43	36	34	30	43.0	1333

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	2.7	9.1	28.2	60.0	90	110		
06009	.0	.0	4.2	12.5	18.8	64.6	90	96		
12015	.0	.0	2.5	11.1	17.3	59.1	92	81		
18021	.0	.0	5.5	5.5	21.8	67.3	92	55		
TOT	0	0	12	34	75	221	91	342		

JUNE

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1902-1974

TABLE 17

AREA 0026 URUP ISLAND
46.2N 151.3EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	43 48	49 52	53 56	57 60	61 64	63 68	69 72	TOT FOG	W FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.4	.2	.1	.1		8	.5	.2
20/22	.0	.0	.0	.0	.0	.2	.3	.1	.0	.0		6	.4	.2
17/19	.0	.0	.0	.0	.0	.1	.1	.2	.0	.0		4	.1	.3
14/16	.0	.0	.0	.0	.1	.6	1.1	.1	.0	.0		21	.8	1.1
11/13	.0	.0	.0	.1	1.4	1.7	1.3	.0	.0	.0		49	1.5	2.9
9/10	.0	.0	.0	.4	3.2	1.4	.2	.0	.0	.0		56	1.9	3.2
7/8	.0	.0	.0	2.3	4.0	1.0	.3	.1	.0	.0		83	3.2	4.5
6	.0	.0	.3	.8	.3	.5	.0	.0	.0	.0		21	.6	1.3
5	.0	.0	.3	5.2	3.3	1.1	.0	.1	.0	.0		111	5.7	4.3
4	.0	.0	2.4	6.1	3.7	.3	.2	.1	.0	.0		141	8.0	4.7
3	.0	.0	1.1	2.8	1.0	.1	.0	.0	.0	.0		35	2.8	2.2
2	.0	.8	6.9	6.1	3.4	.2	.0	.0	.0	.0		193	10.6	6.9
1	.0	.2	1.3	2.2	.5	.0	.1	.0	.0	.0		47	2.4	1.8
0	.0	1.8	6.2	3.7	1.5	.7	.0	.1	.0	.0		156	7.7	6.4
-1	.0	.6	1.3	1.0	.1	.0	.0	.0	.0	.0		33	1.8	1.2
-2	.0	1.6	2.0	.9	.5	.1	.0	.1	.0	.0		58	2.8	2.4
-3	.2	.3	.6	.4	.3	.0	.0	.0	.0	.0		19	.8	.9
-4	.1	.4	.7	.2	.3	.0	.1	.0	.0	.0		19	1.2	.5
-5	.1	.0	.5	.1	.2	.0	.0	.0	.0	.0		10	.6	.3
-6	.1	.0	.2	.1	.1	.0	.0	.0	.0	.0		5	.1	.4
-7/-8	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0		3	.2	.1
-9/-10	.0	.1	.1	.3	.0	.0	.0	.0	.0	.0		5	.2	.3
-11/-13	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0		2	.1	.1
TOTAL	5	66	267	361	264	86	38	15	3	1		1107	598	509
PCT	.5	6.0	24.1	32.6	23.8	7.8	3.4	1.4	.3	.1	.1	100.0	54.0	46.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.1	.9	.0	.0	.0	.0	1.0
1-2	.0	1.2	.4	.0	.0	.0	1.6	.0	2.2	.5	.0	.0	.0	2.7
3-4	.0	.9	1.4	.0	.0	.0	2.3	.0	.9	.6	.0	.0	.0	1.5
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.4	1.0	.0	.0	.0	1.4
7	.0	.0	.3	.0	.0	.0	.3	.4	.0	1.0	.4	.0	.0	1.8
8-9	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	3.3	.0	.4	.0	6.1	.5	4.5	3.1	.5	.0	.0	8.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.2	.0	.0	.0	.0	1.9	.4	3.0	.1	.0	.0	.0	3.5
1-2	.0	1.8	2.0	.0	.0	.0	3.8	.4	1.3	10.0	.0	.0	.0	11.7
3-4	.0	1.4	1.2	.0	.0	.0	2.7	.0	1.2	3.4	.0	.0	.0	4.6
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.4	.8	.0	.0	.0	1.1
7	.4	.3	1.4	.0	.0	.0	2.1	.0	.1	.6	.0	.0	.0	.7
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.7	5.6	.3	.0	.0	11.6	.8	6.1	15.2	.0	.0	.0	22.1

PERIOD: (OVER-ALL) 1963-1974

JUNE

AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.9	2.4	1.0	.0	.0	.0		4.4	.6	2.5	.4	.0	.0	.0		3.4
1-2	.3	3.8	1.9	.0	.0	.0		6.0	.1	3.8	1.1	.0	.0	.0		5.0
3-4	.0	.8	3.2	.4	.0	.0		4.4	.0	.8	2.3	.0	.0	.0		3.0
5-6	.0	.4	2.8	.4	.0	.0		3.6	.0	.4	1.3	.0	.0	.0		1.7
7	.0	.0	1.0	.0	.0	.0		1.0	.0	.0	.1	.0	.0	.0		.1
8-9	.0	.0	.4	.0	.0	.0		.4	.0	.0	.1	.0	.0	.0		.1
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.2	7.3	10.4	.8	.0	.0		19.7	.7	7.4	5.3	.0	.0	.0		13.4

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.3	.0	.0	.0	.0		.3	.0	.4	.0	.0	.0	.0		.4	
1-2	.0	2.5	.7	.0	.0	.0		3.1	.0	1.2	.9	.0	.0	.0		2.1	
3-4	.0	.8	.6	.0	.0	.0		1.3	.0	.5	.9	.0	.0	.0		1.4	
5-6	.0	.0	.8	.4	.0	.0		1.1	.0	.0	.6	.0	.0	.0		.6	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.5	.0	.0	.0		.5	
8-9	.0	.0	.3	.0	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	3.5	2.3	.4	.0	.0		6.2	.0	2.1	2.8	.0	.0	.0		4.9	92.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.4	10.9	1.5	.0	.0	.0	21.8	
1-2	1.1	18.0	17.3	.0	.0	.0	36.5	
3-4	.4	7.1	13.5	.4	.0	.0	21.4	
5-6	.4	1.5	9.4	.8	.0	.0	12.0	
7	.8	.4	4.9	.4	.0	.0	6.4	
8-9	.0	.0	1.1	.4	.4	.0	1.9	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.0	38.0	47.7	1.9	.4	.0	100.0	286

PERIOD: (OVER-ALL) 1950-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	12.4	12.2	5.9	1.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	148	3
6-7	.5	2.6	3.5	5.2	4.9	1.4	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	6
8-9	.5	.5	3.1	2.6	3.5	1.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	6
10-11	.0	.7	.9	.5	.7	.7	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
12-13	.0	.0	.9	.5	1.2	.2	.2	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	7
>13	.0	.0	.0	.5	.5	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
INDEX	6.6	7.7	4.7	2.3	.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	2
TOTAL	40	102	108	74	57	21	12	4	8	0	0	0	0	0	0	0	0	0	0	426	4
PCT	9.4	23.9	25.4	17.4	13.4	4.9	2.8	.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

JULY

AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.3	.0	4.6	.0	.0	.0	.0	9.9	.7	.0	47.6	.7	.7	.0	40.3
NE	3.2	.0	6.0	.0	.0	.0	.0	9.2	1.2	.0	59.4	2.4	3.2	.0	24.7
E	10.0	.0	5.3	.0	.0	.0	.0	14.5	2.2	.0	53.8	.0	.0	.0	29.4
SE	9.2	.0	2.9	.0	.0	.0	.0	12.1	1.4	.0	58.9	.6	.0	.0	26.9
S	6.2	.5	2.5	.0	.0	.0	.0	8.4	.3	.0	70.3	.8	.0	.0	20.3
SW	5.1	.5	2.5	.0	.0	.0	.0	8.0	.5	.0	64.6	.6	.6	.0	25.7
W	4.9	.0	.9	.0	.0	.0	.0	5.8	.0	.0	50.3	1.8	.7	.0	41.5
NW	.5	.0	1.0	.0	.0	.0	.0	1.5	.0	.0	49.6	.2	1.2	.0	47.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	.0	2.6	.0	.0	.0	.0	3.5	.0	.0	61.7	1.7	.0	.0	33.0
TOT PCT	5.3	.2	3.1	.0	.0	.0	.0	8.3	.7	.0	59.2	1.0	.6	.0	30.2
TOT OBS	1261														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	6.5	.0	1.9	.0	.0	.0	.0	8.2	1.1	.0	60.2	1.9	.3	.0	28.3
06009	2.4	.0	3.9	.0	.0	.0	.0	5.8	.3	.0	54.5	.6	1.5	.0	37.3
12015	5.6	.3	3.0	.0	.0	.0	.0	9.0	.7	.0	61.8	.3	.3	.0	27.9
18021	6.8	.4	3.9	.0	.0	.0	.0	11.1	.7	.0	60.9	1.1	.4	.0	25.8
TOT PCT	5.3	.2	3.1	.0	.0	.0	.0	8.4	.7	.0	59.3	1.0	.6	.0	30.0
TOT OBS	1277														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.7	3.4	2.4	.4	*	.0		7.9	9.4	11.6	7.0	12.3	6.8	7.7	6.3	9.3	3.9	
NE	2.1	6.4	1.7	.1	*	.0		10.3	7.6	10.9	12.4	12.5	9.3	10.0	8.1	9.6	9.5	
E	2.0	4.6	2.7	.3	.0	.0		9.6	8.7	13.9	9.5	11.1	9.9	7.7	7.7	9.1	8.2	
SE	1.9	6.4	3.1	.5	.0	.0		11.8	9.1	12.5	14.1	11.3	15.4	12.2	10.9	6.6	9.6	
S	2.2	8.6	4.9	.8	.0	.0		16.5	9.4	7.0	16.7	16.9	15.2	17.7	20.6	20.2	18.1	
SW	3.5	8.4	3.9	.4	.0	.0		16.1	8.3	17.5	15.8	10.6	13.7	17.7	18.1	17.4	18.5	
W	1.9	5.7	1.7	.2	.0	.0		9.4	7.8	9.1	9.2	7.4	11.1	5.1	12.6	7.6	11.9	
NW	1.8	3.7	2.9	.3	.0	.0		8.7	9.3	9.6	8.1	7.4	6.6	9.2	9.7	11.1	8.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	9.5							9.5	.0	7.9	7.3	10.6	11.9	12.8	6.1	9.1	11.8	
TOT OBS	312	332	273	35	1	0	1173		7.9	140	192	142	151	133	163	99	153	
TOT PCT	26.6	47.1	23.3	3.0	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	3.5	3.3	1.0	.2	.0		7.9	9.4	9.0	9.5	6.9	6.1
NE	5.4	4.3	.6	.0	.0		10.3	7.6	11.7	10.8	9.0	9.5
E	4.6	4.0	.8	.2	.0		9.6	8.7	11.4	10.5	7.7	8.5
SE	5.5	4.2	2.0	.1	.0		11.8	9.1	13.4	13.4	11.5	8.4
S	6.8	7.6	1.9	.2	.0		16.5	9.4	12.6	16.0	19.3	18.9
SW	7.8	6.8	1.5	.1	.0		16.1	8.3	16.5	12.2	17.9	18.1
W	4.7	3.9	.9	.0	.0		9.4	7.8	9.2	9.3	9.2	10.2
NW	3.5	3.8	1.3	.8	.0		8.7	9.3	8.7	7.0	9.5	9.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.5						9.5	.0	7.5	11.3	9.1	10.7
TOT OBS	602	446	115	10	0	1173		7.9	332	293	296	252
TOT PCT	51.3	38.0	9.8	.9	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

JULY

AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	7.5	17.2	45.5	27.1	2.7	.0	.0	.0	8.2	100.0	332
0600	11.3	13.7	46.1	25.3	3.8	.0	.0	.0	8.2	100.0	293
1200	9.1	19.3	48.6	20.3	2.7	.0	.0	.0	7.5	100.0	296
1800	10.7	18.3	48.4	19.4	2.8	.4	.0	.0	7.4	100.0	232
TOT	112	200	552	273	35	1	0	7.9			1173
PCT	9.5	17.1	47.1	23.3	3.0	.1	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	.0	1.2	7.8		7.1
NE	.4	.0	.9	6.9		7.5
E	.1	.2	1.6	8.6		7.6
SE	.3	.4	1.1	12.0		7.6
S	1.4	.9	.7	13.4		7.0
SW	1.8	.6	1.5	10.5		6.6
W	.3	.0	1.8	5.7		7.3
NW	.9	.8	1.5	5.8		6.7
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.8	8.7		7.4
TOT OBS	42	18	68	482	610	7.2
TOT PCT	6.9	3.0	11.1	79.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	4.5	.0	.3	.8	.9	.9	.6	.0	.0	.0	1.8	
NE	3.8	.0	.6	.7	1.2	1.0	.3	.0	.0	.0	.6	
E	4.9	.2	.8	.9	1.9	.3	.9	.0	.2	.0	.5	
SE	7.5	.2	.6	.6	2.8	1.2	.4	.0	.0	.0	1.0	
S	10.2	.1	.6	.4	.8	1.0	.5	.0	.0	.2	2.5	
SW	8.5	.0	.4	.6	1.6	.3	.0	.0	.0	.0	3.0	
W	4.1	.0	.2	.6	.6	.9	.3	.0	.0	.2	1.0	
NW	3.8	.0	.0	1.2	.5	.9	.3	.0	.0	.0	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	7.0	.0	.3	.3	.3	1.0	.3	.0	.2	.0	.8	
TOT OBS	331	3	17	36	58	54	24	0	2	2	83	610
TOT PCT	54.3	.5	2.8	5.9	9.5	8.9	3.9	.0	.3	.3	13.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>8500	.2	.5	.7	.7	.7	.7	.7	.7
>5000	.2	.5	.7	.7	.7	.7	.7	.7
>3500	1.8	4.0	4.3	4.3	4.3	4.4	4.6	4.6
>2000	4.8	9.7	11.4	11.9	11.9	12.5	13.0	13.0
>1000	6.4	14.0	19.3	20.4	20.9	21.6	22.4	22.4
>800	8.2	17.0	24.5	25.9	26.4	27.2	28.2	28.3
>300	8.6	18.3	26.5	28.2	28.7	29.7	30.8	31.1
>150	8.6	18.6	26.9	28.5	29.2	30.1	31.3	31.6
>0	8.9	19.4	29.0	32.1	37.1	48.4	79.4	86.5
TOTAL	54	118	176	195	225	294	482	525

TOTAL NUMBER OF OBS: 607

PCT FREQ NH <5/8: 13.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.7	1.7	3.4	2.3	2.6	1.6	3.0	5.1	26.1	50.4	643

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

JULY

AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.4	.3	.5	.5	.6	.2	.1	.0	.2	2.9	
	NO PCP	2.8	4.5	4.4	6.1	10.9	9.0	3.6	3.0	.0	4.4	48.8	
	TOT %	3.0	4.9	4.7	6.6	11.4	9.6	3.8	3.1	.0	4.6	51.6	
1/2<1	PCP	.2	.2	.2	.2	.4	.2	*	*	.0	.0	1.5	
	NO PCP	.9	.5	.4	.3	.7	.6	.4	.1	.0	.2	3.8	
	TOT %	.7	.7	.7	.4	1.1	.8	.3	.2	.0	.2	5.4	
1<2	PCP	.2	.1	.3	.1	.0	.2	.0	.0	.0	.0	.9	
	NO PCP	.2	.2	.3	.6	.2	.2	.2	.1	.0	.2	2.1	
	TOT %	.4	.2	.6	.7	.2	.3	.2	.1	.0	.2	3.0	
2<5	PCP	.2	.2	.4	.4	.1	*	.0	.0	.0	.1	1.4	
	NO PCP	.7	1.1	1.1	.7	.6	1.0	.4	.9	.0	.2	6.7	
	TOT %	.8	1.3	1.5	1.1	.7	1.0	.4	.9	.0	.3	8.1	
5<10	PCP	.1	.1	.1	.1	.1	*	.0	.0	.0	.0	.5	
	NO PCP	1.1	1.2	1.3	1.3	1.8	1.7	1.4	1.1	.0	1.3	12.2	
	TOT %	1.1	1.3	1.4	1.4	1.9	1.7	1.4	1.1	.0	1.3	12.6	
10+	PCP	.0	.1	.1	.3	.3	.2	.3	.0	.0	.1	1.4	
	NO PCP	2.1	1.7	1.0	1.7	1.9	2.7	2.3	2.6	.0	1.9	17.9	
	TOT %	2.1	1.7	1.1	2.0	2.1	2.9	2.7	2.6	.0	2.0	19.2	
TOT OBS													1226
TOT PCT		8.2	10.2	10.0	12.2	17.4	16.4	9.1	7.9	.0	8.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.9	1.5	1.3	1.5	1.4	1.8	.8	.6	.0	4.2	14.0	
	4-10	1.4	3.2	2.4	2.8	3.7	3.1	2.3	1.6	.0		24.5	
	11-21	.7	.5	1.5	1.8	2.7	1.5	1.0	1.3	.0		11.0	
	22+	*	.1	.2	.2	.5	.3	.0	.1	.0		1.5	
	TOT %	3.1	5.2	5.5	6.3	10.3	8.7	4.0	3.6	.0	4.2	51.0	
1/2<1	0-3	.1	.1	.1	.0	.3	.1	.1	.0	.0	.3	1.0	
	4-10	.2	.3	.3	.3	.4	.3	.6	.2	.0		2.6	
	11-21	.5	.3	.1	.1	.4	.5	.1	*	.0		2.0	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	TOT %	.8	.7	.4	.5	1.1	.9	.8	.3	.0	.3	5.7	
1<2	0-3	*	*	.2	.0	.1	*	.1	*	.0	.5	1.1	
	4-10	.2	.2	*	.4	.2	.2	.2	.2	.0		1.7	
	11-21	.0	.1	.2	.1	.2	.2	.1	.1	.0		1.0	
	22+	.1	.0	*	.1	*	.0	.0	.0	.0		.3	
	TOT %	.3	.4	.5	.7	.5	.4	.4	.3	.0	.5	4.0	
2<5	0-3	.0	.1	.1	.0	.1	.3	.2	.1	.0	.4	1.3	
	4-10	.3	1.1	.7	.3	.3	.8	.4	.2	.0		4.1	
	11-21	.2	.2	.7	.7	.4	.5	.1	.2	.0		3.0	
	22+	.1	.0	.0	.0	.1	.0	.1	*	.0		.3	
	TOT %	.6	1.3	1.5	1.0	.9	1.6	.7	.6	.0	.4	8.7	
5<10	0-3	.2	.1	.1	.2	.2	.3	.2	*	.0	1.3	2.6	
	4-10	.4	.7	.8	.7	1.0	.8	.7	.4	.0		5.6	
	11-21	.3	.4	.1	.3	.4	.6	.2	.4	.0		2.7	
	22+	.1	*	.0	.0	.0	.1	*	*	.0		.3	
	TOT %	.9	1.3	1.0	1.2	1.7	1.8	1.1	.9	.0	1.3	11.1	
10+	0-3	.5	.3	.1	.2	.2	1.1	.7	.6	.0	2.1	5.8	
	4-10	1.0	1.1	.6	1.6	.9	1.1	1.6	1.1	.0		9.0	
	11-21	.7	.3	.3	.2	.9	.6	.3	.9	.0		4.2	
	22+	.1	*	.0	.1	.0	.0	.1	.1	.0		.4	
	TOT %	2.3	1.7	1.1	2.1	2.0	2.8	2.7	2.6	.0	2.1	19.4	
TOT OBS													1116
TOT PCT		8.0	10.7	9.9	11.7	16.6	16.3	9.7	8.3	.0	8.8	100.0	

JULY

PERIOD: (PRIMARY) 1938-1974
(OVERALL) 1870-1974AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	57.5	1.0	.5	5.5	8.5	7.0	5.0	.0	.0	.5	85.5	14.5	200
06009	46.8	.6	2.9	6.4	8.1	12.7	5.8	.0	.0	.6	83.8	16.2	173
12015	57.3	.0	4.6	5.3	10.7	6.1	.8	.0	.8	.0	85.5	14.5	131
18021	54.7	.0	4.3	6.0	12.0	8.5	2.6	.0	.9	.0	88.9	11.1	117
TOT	335	3	17	36	59	54	24	0	2	2	532	89	621
PCT	53.9	.5	2.7	5.8	9.5	8.7	3.9	.0	.3	.3	85.7	14.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL
(GMT)							OBS
00003	50.9	7.8	4.9	7.5	10.6	18.3	387
06009	46.3	4.5	3.9	7.8	14.6	23.6	335
12015	54.2	4.7	3.4	11.8	11.8	14.0	321
18021	52.6	5.9	4.4	10.7	10.0	15.9	289
TOT	678	77	59	124	157	241	1332
PCT	50.9	5.8	4.1	9.3	11.8	18.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL
(GMT)	<5000	<1	<5	AND 5+		OBS
00003	59.8	67.5	77.3	13.4	9.3	194
06009	47.1	52.9	66.5	20.0	13.5	170
12015	59.5	66.7	79.4	7.9	12.7	126
18021	54.7	63.2	78.6	12.8	8.5	117
TOT	335	379	455	85	67	607
PCT	55.2	62.4	75.0	14.0	11.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
60/64	.0	.0	.0	.0	.0	.3	.9	.3	5	1.5
59/59	.0	.0	.3	.0	.6	1.2	2.9	5.0	34	10.0
50/54	.0	.0	.0	.3	.3	1.2	9.6	20.9	106	31.3
45/49	.0	.0	.0	.3	.3	.6	6.8	28.6	124	36.6
40/44	.0	.0	.0	.0	.3	.3	2.4	15.6	63	18.6
35/39	.0	.0	.0	.0	.0	.0	.0	2.1	7	2.1
TOTAL	0	0	1	2	8	12	73	246	339	100.0
PCT	.0	.0	.3	.6	1.5	3.5	21.5	72.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.9	.3	.0	.0	.0	.0	.3
.4	.4	1.0	2.3	1.4	2.3	1.1	.1	.0	.9
1.4	2.5	3.5	3.2	8.1	4.6	3.3	2.3	.0	2.4
4.6	3.4	4.0	5.1	5.5	5.4	2.4	3.2	.0	2.9
3.5	2.9	2.2	1.5	.7	2.4	1.8	2.4	.0	1.2
.3	.3	.0	.6	.0	.0	.0	.9	.0	.0
10.3	9.5	10.7	13.6	16.1	14.6	8.6	9.0	.0	7.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	68	66	59	49	41	37	34	49.5	399
06009	72	68	60	50	41	39	38	49.9	341
12015	73	65	57	46	39	36	36	47.2	333
18021	70	64	57	46	39	37	36	47.3	290
TOT	73	66	59	48	39	37	34	48.6	1363

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	.0	.8	3.4	29.7	66.1	93	118
06009	.0	2.1	3.1	5.2	19.8	69.8	92	96
12015	.0	1.5	.0	4.4	13.2	80.9	94	68
18021	.0	.0	1.7	.0	16.9	81.4	96	59
TOT	0	3	5	12	73	248	93	341

JULY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

TABLE 17

AREA 0026 URUP ISLAND
46.2N 151.3EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	NO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.5	.2	.0	.0	8	.3	.3
20/22	.0	.0	.0	.0	.0	.0	.4	.3	.1	.3	.0	13	.4	.7
17/19	.0	.0	.0	.0	.1	.3	.6	.5	.1	.0	.2	20	1.0	.7
14/16	.0	.0	.0	.0	.5	.9	.6	.3	.0	.0	.0	28	1.3	1.1
11/13	.0	.0	.0	.9	2.0	1.5	1.3	.3	.2	.1	.0	72	3.4	2.7
9/10	.0	.0	.1	1.6	1.9	1.0	.4	.1	.1	.0	.0	61	3.2	2.0
7/8	.0	.0	.5	2.6	3.0	2.0	.5	.0	.0	.0	.0	100	4.9	3.7
6	.0	.0	.1	.8	.4	.3	.2	.0	.0	.0	.0	21	.9	.9
5	.0	.1	1.9	4.7	2.6	1.9	.7	.1	.1	.0	.0	140	7.2	4.8
4	.0	.5	2.3	4.6	2.4	1.9	.2	.1	.0	.0	.0	140	8.2	3.8
3	.0	.2	.5	1.3	1.0	.3	.0	.0	.0	.0	.0	38	1.7	1.5
2	.0	1.5	3.2	4.3	2.3	1.4	.1	.0	.0	.0	.0	149	8.9	3.8
1	.0	.5	1.2	1.7	1.4	.3	.0	.0	.1	.0	.0	61	1.9	3.3
0	.1	1.5	2.6	4.2	2.6	.9	.3	.0	.0	.0	.0	141	7.6	4.4
-1	.0	.3	.6	.9	.9	.1	.0	.0	.0	.0	.0	32	1.5	1.2
-2	.1	.5	1.5	2.0	.4	.1	.1	.0	.0	.0	.0	55	2.8	1.9
-3	.0	.3	.8	.8	.3	.1	.0	.0	.0	.0	.0	25	.9	1.2
-4	.0	.3	.9	1.0	.3	.2	.0	.0	.0	.0	.0	32	1.3	1.5
-5	.0	.2	.2	.4	.2	.1	.0	.0	.0	.0	.0	12	.7	.3
-6	.0	.0	.2	.2	.1	.0	.0	.0	.0	.0	.0	5	.1	.3
-7/-8	.3	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	10	.7	.2
-9/-10	.0	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	5	.2	.3
-11/-13	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	3	.1	.2
TOTAL	6		193		264		62		9		2	1171	693	478
PCT	.5		76		375		154		26		4	100.0	59.2	40.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.8	.8	.3	.0	.0	.0	1.9	.3	.8	.1	.0	.0	.0	1.2
1-2	.0	1.7	.6	.0	.0	.0	2.3	.0	1.2	.5	.0	.0	.0	1.7
3-4	.0	1.0	1.4	.3	.0	.0	2.8	.0	.4	.8	.0	.0	.0	1.2
5-6	.0	.3	1.9	.0	.0	.0	2.2	.0	1.0	.4	.0	.0	.0	1.4
7	.0	.3	1.2	.0	.0	.0	1.5	.0	1.0	.8	.0	.0	.0	1.8
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.3	.3	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.2	9.6	.9	.0	.0	11.4	.3	4.5	2.5	.1	.0	.0	7.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.8	.0	.0	.0	.0	1.1	.7	1.1	.0	.0	.0	.0	1.8
1-2	.0	1.9	1.9	.0	.0	.0	3.8	.0	3.8	1.4	.0	.0	.0	5.2
3-4	.0	.8	2.2	.3	.0	.0	3.3	.0	.9	.5	.0	.0	.0	1.4
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.3	.8	.3	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.2	.3	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.3	4.4	.3	.0	.0	8.4	.7	6.3	4.9	1.0	.0	.0	13.0

PERIOD: (OVER-ALL) 1963-1974

JULY

AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	1.4	2.9	.0	.0	.0	.0	4.3
1-2	.9	4.2	2.9	.0	.0	.0	8.0	.1	3.8	1.4	.0	.0	.0	5.3
3-4	.3	1.4	.6	.3	.0	.0	2.6	.1	1.2	1.8	.0	.0	.0	3.0
5-6	.0	.0	1.2	.3	.0	.0	1.5	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.8	.7	.0	.0	1.4	.0	.3	.1	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	6.3	3.4	1.3	.0	.0	14.2	1.6	8.2	4.6	.3	.0	.0	14.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.9	2.1	.0	.0	.0	.0	3.0	.4	.8	.0	.0	.0	.0	1.3	
1-2	.0	3.4	.3	.0	.0	.0	3.6	.0	1.3	1.1	.0	.0	.0	2.4	
3-4	.0	.6	.3	.0	.0	.0	.9	.0	1.4	1.9	.0	.0	.0	3.3	
5-6	.0	.3	.8	.3	.0	.0	1.3	.0	.1	1.8	.1	.0	.0	1.9	
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	.9	.0	.0	.0	.8	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	6.3	2.0	.3	.0	.0	9.5	.4	3.7	5.6	.1	.0	.0	9.8	88.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.8	10.1	.3	.0	.0	.0	26.3	
1-2	1.3	21.2	10.1	.0	.0	.0	32.7	
3-4	.3	7.7	9.4	1.0	.0	.0	18.5	
5-6	.0	2.0	8.1	1.0	.0	.0	11.1	
7	.0	2.0	6.4	1.0	.0	.0	9.4	
8-9	.0	.0	.3	1.0	.0	.0	1.3	
10-11	.0	.0	.3	.3	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.5	43.1	35.0	4.4	.0	.0	100.0	297

PERIOD: (OVER-ALL) 1954-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	14.4	11.8	5.1	1.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	188	3
6-7	.4	4.6	10.1	6.7	5.1	1.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	148	4
8-9	.0	3.0	2.3	2.7	4.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	5
10-11	.0	2.5	.2	.6	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	4
12-13	.0	.0	1.1	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
>13	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
INDEX	8.9	3.2	2.5	1.0	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	2
TOTAL	61	146	147	87	69	11	3	1	1	0	0	0	0	0	0	0	0	0	0	526	3
PCT	11.6	27.8	27.9	16.5	13.1	2.1	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1879-1974

AUGUST

AREA 0026 URUP ISLAND
46.1N 151.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.8	2.0	.0	.0	.0	.0	2.8	.0	.0	36.0	3.8	.8	.8	55.8
NE	8.9	2.9	3.4	.0	.0	.0	.0	17.2	2.7	.0	42.2	2.0	1.8	.4	33.7
E	17.1	.0	6.2	.0	.0	.0	.0	21.5	2.6	.0	38.0	4.1	.6	.6	32.6
SE	12.0	.6	7.9	.0	.0	.0	.0	20.4	1.2	.0	45.7	2.1	.1	.0	30.5
S	10.2	.0	6.0	.0	.0	.0	.0	14.7	.0	.0	61.0	1.5	.9	.5	21.9
SW	4.8	.2	2.6	.0	.0	.0	.0	7.0	.1	.0	64.7	1.1	.0	.0	27.1
W	1.0	.4	4.6	.0	.0	.0	.0	6.0	.6	.0	41.7	1.4	1.6	.0	48.6
NW	2.8	.0	.3	.0	.0	.0	.0	3.1	.0	.0	36.1	1.3	.3	.0	59.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6	.0	.0	.0	.0	.0	.0	2.6	1.3	.0	59.7	3.9	.0	.0	32.5
TOT PCT	7.2	.5	4.3	.0	.0	.0	.0	11.5	.8	.0	49.8	2.1	.6	.2	35.0
TOT OBS:	1245														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRYL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	5.4	.0	3.8	.0	.0	.0	.0	8.4	1.1	.0	49.9	2.4	.3	.3	37.7
0600	5.7	.0	3.8	.0	.0	.0	.0	9.6	.3	.0	51.6	1.6	1.9	.3	34.7
1200	8.5	1.0	5.4	.0	.0	.0	.0	13.9	1.0	.0	50.0	1.7	.0	.3	33.0
1800	10.5	1.0	4.4	.0	.0	.0	.0	15.5	1.0	.0	47.3	2.4	.0	.0	33.8
TOT PCT	7.4	.5	4.3	.0	.0	.0	.0	11.6	.9	.0	49.7	2.0	.5	.2	35.0
TOT OBS:	1275														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	4.4	1.8	.2	.0	.0		7.2	8.9	5.4	7.8	9.0	5.7	7.6	7.9	7.8	6.4	
NE	.5	5.2	1.7	.5	.0	.0		8.0	9.6	9.1	7.7	7.3	6.2	9.3	6.9	7.8	9.5	
E	1.1	5.0	1.8	.8	.1	.0		8.8	9.9	11.0	8.6	10.5	6.5	11.7	5.6	7.8	8.9	
SE	2.0	7.3	3.3	.8	.0	.0		13.4	9.4	10.9	11.9	13.5	19.6	9.5	14.7	14.2	13.0	
S	1.7	10.3	5.0	.8	.0	.0		17.8	9.6	20.5	16.8	20.0	15.7	19.5	16.5	18.4	16.2	
SW	2.3	11.9	4.9	.3	.0	.0		19.4	8.7	19.2	23.4	15.4	15.6	18.6	24.0	18.2	19.3	
W	1.8	6.2	2.2	.2	.1	.0		10.5	8.7	9.6	8.6	7.8	13.9	10.4	12.3	7.6	13.2	
NW	1.4	4.9	2.7	.1	.0	.0		9.1	9.0	6.0	8.8	9.4	10.0	9.7	8.8	12.9	8.2	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.8							5.8	.0	8.4	6.4	7.1	6.8	3.8	3.2	5.1	5.3	
TOT OBS	214	684	291	47	2	0	1238		8.7	154	204	141	162	132	156	118	171	
TOT PCT	17.3	55.3	23.5	3.8	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	2.6	3.9	.6	.0	.0		7.2	8.9	6.8	7.3	7.7	7.0	
NE	3.5	3.3	1.1	.1	.0		8.0	9.6	8.3	6.7	8.0	8.8	
E	3.6	3.8	1.1	.3	.0		8.8	9.9	9.6	8.3	8.4	8.5	
SE	5.9	5.3	2.2	.0	.0		13.4	9.4	11.5	16.7	12.3	13.5	
S	6.4	9.1	2.2	.1	.0		17.8	9.6	18.4	17.7	17.9	17.1	
SW	7.5	10.5	1.4	.0	.0		19.4	8.7	21.6	15.5	21.5	18.9	
W	4.3	5.1	.9	.2	.0		10.5	8.7	9.0	11.1	11.3	10.9	
NW	3.5	4.4	1.2	.0	.0		9.1	9.0	7.6	9.7	9.2	10.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	5.8						5.8	.0	7.3	6.9	3.5	5.2	
TOT OBS	534	562	134	8	0	1238		8.7	358	303	288	289	
TOT PCT	43.1	45.4	10.8	.6	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1879-1974

AUGUST

AREA 0026 URUP ISLAND
46.1N 151.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	7.3	13.4	53.9	21.2	4.2	.0	.0	8.3	100.0	358
06609	6.9	9.9	51.2	27.1	5.0	.0	.0	9.1	100.0	303
12615	3.5	9.7	58.0	26.4	2.4	.0	.0	8.9	100.0	288
18621	5.2	12.5	58.5	19.7	3.5	.7	.0	8.5	100.0	289
TOT	72	142	684	291	47	2	0	8.7		1238
PCT	5.8	11.5	55.3	23.5	3.8	.2	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL	MEAN CLOUD COVER
N	.8	.4	1.4	6.1		6.8
NE	.8	.4	1.6	8.3		7.1
E	.2	.5	.9	8.3		7.5
SE	.6	.4	.9	10.1		7.3
S	1.1	.4	1.4	15.7		7.3
SW	2.3	1.0	1.9	10.7		6.4
W	1.0	1.0	1.5	7.0		6.6
NW	1.5	.6	.8	4.2		5.8
VAR	.0	.0	.0	.0		.0
CALM	.3	.6	.6	4.6		7.0
TOT OBS	56	35	71	484	647	6.9
TOT PCT	8.7	5.4	11.0	75.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999	ANY HGT		OBS
N	3.2	.4	.2	.6	1.7	.8	.2	.2	.1	.0	1.4	
NE	5.4	.6	.6	1.1	1.6	.7	.3	.0	.0	.0	1.4	
E	4.1	.0	.4	1.6	1.5	.9	.2	.0	.2	.0	1.1	
SE	6.2	.0	.5	1.0	1.2	1.2	.3	.2	.0	.0	1.4	
S	11.3	.0	.3	1.4	1.4	1.0	.7	.2	.0	.0	2.3	
SW	8.5	.0	.3	.8	1.0	1.2	.1	.2	.0	.0	3.9	
W	4.1	.0	.6	.3	1.2	1.4	.4	.0	.0	.0	2.6	
NW	2.4	.0	.3	.3	1.1	1.3	.0	.0	.0	.0	2.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.6	.2	.2	.3	1.1	.3	.5	.0	.0	.0	1.1	
TOT OBS	309	4	22	48	70	55	19	4	2	0	114	647
TOT PCT	47.8	.6	3.4	7.4	10.8	8.5	2.9	.6	.3	.0	17.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	.3	.5	.5	.5	.5	.5	.5	.5
>3000	.5	.9	1.1	1.1	1.1	1.1	1.1	1.1
>3500	2.6	3.7	4.2	4.3	4.3	4.3	4.3	4.3
>2000	4.2	8.4	11.0	11.6	11.9	12.1	12.4	12.4
>1000	6.7	15.6	20.0	20.7	21.5	22.1	22.6	22.6
>600	8.5	20.7	25.9	26.9	28.3	29.3	30.0	30.2
>900	9.3	22.0	28.2	29.7	31.4	32.5	33.3	33.4
>150	9.4	22.4	28.6	30.3	32.0	33.1	33.9	34.1
>0	9.9	23.7	31.6	34.8	38.9	46.7	77.4	82.8
TOTAL	64	193	204	225	251	302	500	535

TOTAL NUMBER OF OBS: 646

PCT FREQ NM <5/8: 17.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL
5.0	3.2	4.1	2.5	2.4	2.4	3.5	3.7	24.8	46.5	678

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1879-1974

AUGUST

AREA 0026 URUP ISLAND
46.1N 151.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.	.7	.5	1.1	1.0	.8	.1	.0	.0	.0	4.3	
	NO PCP	1.9	2.7	2.9	5.0	10.0	10.3	3.8	2.4	.0	2.7	41.7	
	TOT %	1.9	3.4	3.4	6.1	11.1	11.1	3.9	2.4	.0	2.7	46.0	
1/2<1	PCP	.0	.3	.4	.5	.3	.0	.1	.0	.0	.0	1.6	
	NO PCP	.4	.7	.5	.3	.5	.4	.2	.3	.0	.1	3.2	
	TOT %	.4	1.0	.9	.8	.7	.4	.3	.3	.0	.1	4.8	
1<2	PCP	.0	.1	.3	.4	.5	.2	.1	.0	.0	.0	1.4	
	NO PCP	.4	.5	.2	.3	.1	.1	.2	.1	.0	.2	2.0	
	TOT %	.4	.6	.4	.6	.5	.3	.3	.1	.0	.2	3.5	
2<5	PCP	.1	.2	.4	.4	.3	.1	.3	.2	.0	.2	2.3	
	NO PCP	.6	.7	.6	.6	1.0	.6	.6	.5	.0	.3	5.4	
	TOT %	.7	.9	1.0	1.0	1.2	.7	.9	.7	.0	.4	7.7	
5<10	PCP	.1	.3	.3	.4	.5	.2	.1	.1	.0	.0	1.9	
	NO PCP	2.5	1.9	2.4	2.1	1.5	2.4	1.2	1.3	.0	.6	15.8	
	TOT %	2.5	2.1	2.7	2.5	2.0	2.5	1.3	1.4	.0	.6	17.7	
10+	PCP	.0	.0	.1	.1	.3	.0	.0	.0	.0	.0	.5	
	NO PCP	2.1	1.1	.9	2.1	2.0	3.1	3.5	3.1	.0	1.9	19.9	
	TOT %	2.1	1.1	1.1	2.3	2.3	3.1	3.5	3.1	.0	1.9	20.4	
TOT OBS													1187
TOT PCT		8.0	9.1	9.5	13.3	17.8	18.1	10.2	8.0	.0	5.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.1	.5	.4	.8	1.0	.9	.4	.0	2.4	6.8	
	4-10	1.6	2.2	2.2	3.2	6.3	7.1	2.5	2.1	.0		27.2	
	11-21	.4	.2	.4	1.9	3.5	3.4	.9	1.0	.0		11.7	
	22+	.0	.1	.1	.3	.5	.2	.1	.1	.0		1.4	
	TOT %	2.2	2.6	3.3	5.8	11.0	11.7	4.4	3.6	.0	2.4	47.1	
1/2<1	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
	4-10	.2	.4	.3	.5	.4	.2	.2	.1	.0		2.3	
	11-21	.2	.1	.2	.1	.3	.1	.0	.0	.0		1.0	
	22+	.0	.1	.2	.1	.*	.*	.0	.0	.0		.4	
	TOT %	.3	.6	.7	.8	.7	.3	.2	.1	.0	.1	3.8	
1<2	0-3	.0	.*	.*	.0	.0	.1	.1	.3	.0	.2	.8	
	4-10	.2	.4	.2	.5	.6	.2	.1	.2	.0		2.3	
	11-21	.0	.1	.2	.2	.1	.2	.2	.*	.0		1.0	
	22+	.1	.1	.1	.0	.1	.1	.2	.*	.0		.6	
	TOT %	.3	.7	.5	.7	.7	.6	.5	.6	.0	.2	4.7	
2<5	0-3	.2	.0	.2	.2	.3	.1	.1	.1	.0	.4	1.6	
	4-10	.4	.5	.3	.6	.4	.8	.6	.3	.0		3.9	
	11-21	.2	.5	.2	.4	.6	.4	.2	.4	.0		2.9	
	22+	.0	.0	.3	.1	.1	.0	.0	.0	.0		.4	
	TOT %	.7	1.0	1.0	1.3	1.4	1.3	1.0	.8	.0	.4	8.8	
5<10	0-3	.2	.1	.2	.2	.2	.4	.2	.2	.0	.5	2.2	
	4-10	1.2	1.2	1.4	1.2	1.1	1.5	1.1	.7	.0		9.6	
	11-21	.7	.6	.7	.8	.4	.5	.*	.4	.0		3.9	
	22+	.1	.1	.2	.2	.2	.*	.0	.0	.0		.7	
	TOT %	2.1	2.0	2.5	2.4	1.9	2.3	1.4	1.3	.0	.5	16.4	
10+	0-3	.1	.1	.0	.7	.2	.5	.6	.4	.0	1.8	4.5	
	4-10	1.2	.6	.7	1.4	1.5	1.6	1.7	1.5	.0		10.2	
	11-21	.4	.1	.2	.1	.3	.8	1.0	1.1	.0		4.0	
	22+	.*	.1	.1	.1	.0	.0	.1	.0	.0		.4	
	TOT %	1.7	1.0	.9	2.3	2.1	2.9	3.4	3.1	.0	1.8	19.2	
TOT OBS													1153
TOT PCT		7.4	7.8	8.9	13.2	17.9	19.2	10.8	9.4	.0	5.5	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1879-1974

AUGUST

AREA 0026 URUP ISLAND
46.1N 151.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	44.7	.5	1.9	7.2	13.9	11.5	4.8	1.0	.5	.0	86.1	13.9	208
06009	44.7	1.2	3.5	5.9	11.8	9.4	4.7	.6	.6	.0	82.4	17.6	170
12015	57.4	.0	3.4	8.1	6.1	6.1	1.4	.7	.7	.0	83.8	16.2	148
18021	46.0	.7	5.0	8.6	8.6	5.0	1.4	.0	.0	.0	75.5	24.5	139
TOT	318	4	22	49	70	56	22	4	3	0	548	117	665
PCT	47.8	.6	3.3	7.4	10.5	8.4	3.3	.6	.5	.0	82.4	17.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	45.8	4.3	5.1	8.4	16.3	20.1	393
06009	45.7	5.0	4.9	9.5	15.7	19.6	337
12015	50.5	4.5	3.9	10.3	15.8	15.1	311
18021	47.3	4.5	3.9	9.6	16.7	18.0	311
TOT	638	62	59	127	218	248	1352
PCT	47.2	4.6	4.4	9.4	16.1	18.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	46.7	52.3	66.8	21.6	11.6	199
06009	45.2	54.2	68.5	18.5	13.1	168
12015	58.3	65.3	77.1	8.3	14.6	144
18021	47.4	60.0	74.1	11.1	14.8	135
TOT	317	370	459	101	86	646
PCT	49.1	57.3	71.1	15.6	13.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.3	.3	.0	2	.6
60/64	.0	.0	.0	.0	.6	.3	1.8	5.5	27	8.3
55/59	.0	.0	.0	.0	1.2	1.5	5.8	15.6	79	24.2
50/54	.0	.0	.0	.3	.0	.6	8.9	31.0	133	40.8
45/49	.0	.0	.0	.0	.0	.6	2.8	18.1	70	21.5
40/44	.0	.0	.0	.0	.0	.0	.0	4.6	15	4.6
TOTAL	0	0	0	1	6	11	64	244	326	100.0
PCT	.0	.0	.0	.3	1.8	3.4	19.6	74.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3
60/64	.3	1.1	2.2	1.0	1.6	1.4	.7	.0	.0	.0
55/59	2.0	2.7	3.6	3.8	5.7	2.7	1.5	1.1	.0	1.2
50/54	3.5	5.6	5.1	7.3	7.4	4.8	3.6	2.6	.0	1.9
45/49	3.7	1.7	.7	1.5	1.4	4.9	2.8	3.1	.0	1.8
40/44	2.5	.5	.3	.5	.8	.0	.0	.1	.0	.0
TOTAL	11.9	11.7	12.1	14.0	16.9	13.8	8.6	6.8	.0	4.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	70	65	54	49	41	39	54.4	403
06009	72	70	63	54	45	43	40	53.8	317
12015	66	65	61	52	43	39	37	51.3	330
18021	75	68	62	52	44	41	37	52.3	327
TOT	75	68	63	52	48	41	37	53.0	1407

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.9	3.7	4.6	25.9	64.8	92	108
06009	.0	.0	1.2	3.6	18.1	77.1	94	83
12015	.0	.0	1.4	2.9	15.7	80.0	95	70
18021	.0	.0	.0	1.5	16.7	81.8	95	66
TOT	0	1	6	11	65	244	93	327

AUGUST

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1879-1974AREA 0026 URUP ISLAND
46.1N 151.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	W FOG
23/25	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	2	.2	.0
20/22	.0	.0	.0	.0	.0	.3	.5	.5	.3	.0	18	.6	1.0
17/19	.0	.0	.0	.0	.0	.3	.8	.2	.1	.0	15	.6	.7
14/16	.0	.0	.0	.1	1.2	1.1	.5	.2	.2	.0	36	1.3	2.0
11/13	.0	.0	.0	1.4	1.8	1.8	.8	.4	.1	.1	71	3.2	3.2
9/10	.0	.0	.6	1.4	2.3	1.4	.5	.1	.0	.0	71	3.4	3.0
7/8	.0	.0	1.6	2.3	1.5	1.0	1.3	.1	.0	.0	87	4.9	3.0
6	.0	.0	.7	.5	.3	.7	.2	.1	.0	.0	28	1.6	.9
4	.0	.2	2.1	2.2	2.6	1.8	1.4	.1	.0	.0	114	5.1	5.1
3	.0	.4	2.6	3.4	2.6	2.0	.7	.1	.1	.0	132	6.2	5.7
2	.0	.5	.8	.9	.9	.2	.3	.0	.0	.0	39	1.7	1.8
1	.1	.6	3.0	3.2	3.2	2.0	.1	.1	.0	.0	158	7.5	6.8
0	.1	.3	.7	1.6	1.3	.3	.2	.0	.0	.0	49	1.6	2.8
-1	.0	.5	2.2	2.6	2.8	.7	.3	.1	.0	.0	101	5.0	4.1
-2	.1	.4	.8	1.2	.6	.3	.0	.0	.0	.0	37	1.4	1.9
-3	.0	.4	1.7	2.5	1.0	.6	.2	.0	.0	.0	71	2.7	3.7
-4	.0	.1	.5	.4	.2	.1	.0	.0	.0	.0	14	.5	.8
-5	.0	.4	.8	.5	.5	.1	.1	.0	.0	.0	26	.6	1.7
-6	.0	.1	.5	.5	.5	.2	.0	.0	.0	.0	18	.6	1.0
-7/-8	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	5	.1	.4
-9/-10	.0	.0	.3	.5	.3	.1	.0	.0	.0	.0	12	.5	.5
-11/-13	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	3	.1	.2
-14/-16	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.1	.1
TOTAL	.4	43	233	283	263	165	88	21	8	2	1110	550	560
PCT	.4	3.9	21.0	25.5	23.7	14.9	7.9	1.9	.7	.2	100.0	49.5	50.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	2.2	.0	.0	.0	.0	2.2
1-2	.2	2.1	.8	.0	.0	.0	3.1	.0	2.5	.6	.0	.0	.0	3.1
3-4	.3	2.5	.6	.0	.0	.0	3.5	.0	.7	.6	.0	.0	.0	1.4
5-6	.0	.0	1.0	.2	.0	.0	1.2	.0	.1	1.6	.1	.0	.0	1.8
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.5	2.7	.6	.0	.0	9.3	.0	5.5	2.8	.4	.0	.0	8.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.4	1.1	.0	.0	.0	.0	1.5
1-2	.0	3.1	1.5	.0	.0	.0	4.6	.0	2.9	2.0	.0	.0	.0	4.9
3-4	.0	1.3	1.1	.3	.0	.0	2.7	.0	.2	1.2	1.0	.0	.0	2.4
5-6	.0	.6	.9	.0	.0	.0	1.5	.0	.3	1.5	.0	.0	.0	1.8
7	.0	.0	.2	.3	.0	.0	.6	.0	.0	.1	.3	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.0	3.7	1.0	.0	.0	10.7	.4	6.6	4.8	1.4	.0	.0	11.1

PERIOD: (OVER-ALL) 1963-1974

AUGUST

AREA 0026 URUP ISLAND
46.1N 151.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	2.9	.0	.0	.0	.0		3.5	.3	2.5	.0	.0	.0	.0		2.8
1-2	.6	2.7	2.1	.0	.0	.0		5.3	.4	4.6	1.5	.0	.0	.0		6.5
3-4	.0	2.3	3.9	.3	.0	.0		6.5	.3	1.1	3.1	.2	.0	.0		4.8
5-6	.0	1.2	2.3	.3	.0	.0		3.9	.0	.4	1.1	.3	.0	.0		1.9
7	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.1	.0	.0		.1
10-11	.0	.0	.0	.5	.0	.0		.5	.0	.0	.0	.1	.0	.0		.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.3	.0	.0	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.1	9.4	8.3	1.7	.0	.0		20.6	1.0	8.6	5.6	.8	.0	.0		16.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
1-2	.0	3.4	.3	.0	.0	.0		3.7	.1	1.3	.3	.0	.0	.0		1.7	
3-4	.3	.8	1.3	.0	.0	.0		2.4	.3	.6	1.0	.0	.0	.0		2.0	
5-6	.3	1.0	1.7	.0	.0	.0		3.0	.0	.0	1.9	.0	.0	.0		1.9	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.8	.0	.0	.0		.6	
8-9	.0	.0	.2	.0	.0	.0		.2	.0	.0	.1	.0	.0	.0		.1	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0		.1	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.6	5.2	3.5	.0	.0	.0		9.4	.4	1.9	4.0	.0	.0	.0		6.4	92.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.7	10.6	.0	.0	.0	.0	19.4	
1-2	1.3	22.6	9.0	.0	.0	.0	32.9	
3-4	1.6	9.7	12.9	1.9	.0	.0	26.1	
5-6	.3	3.5	11.9	1.0	.0	.0	16.8	
7	.0	.0	1.0	1.3	.0	.0	2.3	
8-9	.0	.0	.3	.6	.0	.0	1.0	
10-11	.0	.0	.0	1.0	.0	.0	1.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.3	.0	.0	.0	.3	
17-19	.0	.3	.0	.0	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.9	46.8	35.5	5.8	.0	.0	100.0	310

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	13.7	13.9	8.7	1.7	.4	.2	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	210	3
6-7	.2	1.7	7.7	8.1	3.5	.4	.8	.2	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	5
8-9	.0	.8	3.9	3.7	2.7	.6	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	5
10-11	.0	1.5	.4	1.0	1.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	5
12-13	.0	.0	.2	.8	.0	.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
>13	.0	.0	.0	.4	.4	.0	.2	.0	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	8	12
INDEX	4.4	4.4	3.9	1.5	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	
TOTAL	31	115	155	125	56	10	13	1	8	3	2	0	0	0	0	0	0	0	0	519	4
PCT	6.0	22.2	29.9	24.1	10.8	1.9	2.5	.2	1.5	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1904-1974

AREA 0026 URUP ISLAND
46.1N 151.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	7.9	.0	2.3	.0	.0	.0	.0	10.2	1.2	.0	22.5	.0	2.0	.0	64.0
NE	20.6	.9	4.3	.0	.0	.0	.0	25.7	3.6	.0	23.4	.0	.0	.0	47.2
E	25.0	.0	3.2	.0	.0	.0	.0	28.2	2.8	.0	18.6	.0	.0	.0	50.4
SE	22.3	.0	5.1	.0	.0	.0	.0	27.4	2.7	.0	26.3	.0	.0	.0	43.6
S	8.4	.0	3.7	.0	.0	.0	.0	12.0	2.1	.0	31.9	.5	.0	.0	53.4
SW	5.1	.7	1.1	.0	.0	.0	.0	6.5	.0	.0	32.4	.2	.0	.0	60.9
W	2.3	.0	2.1	.0	.0	.0	.0	4.1	.7	.0	15.3	.5	.0	.0	79.5
NW	3.5	.0	.5	.0	.0	.0	.0	4.0	.9	.0	19.8	1.2	.2	.0	73.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.5	.0	.0	.0	.0	.0	.0	5.5	.0	.0	31.9	1.1	1.1	.0	60.4
TOT PCT	11.2	.2	2.6	.0	.0	.0	.0	13.9	1.6	.0	24.7	.4	.3	.0	59.3
TOT OBS:	1083														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	8.7	.3	3.2	.0	.0	.0	.0	12.3	1.3	.0	25.0	.9	.3	.0	60.1
06009	11.8	.0	2.4	.0	.0	.0	.0	14.2	1.7	.0	25.3	.3	.3	.0	58.0
12015	13.2	.0	3.7	.0	.0	.0	.0	16.5	2.1	.0	24.7	.0	.4	.0	56.4
18021	10.6	.4	.8	.0	.0	.0	.0	11.7	1.1	.0	24.5	.4	.0	.0	62.3
TOT PCT	11.0	.2	2.5	.0	.0	.0	.0	13.6	1.5	.0	24.9	.4	.3	.0	59.3
TOT OBS:	1112														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.8	3.9	1.6	.8	.0	.0		8.2	9.6	6.5	6.2	3.4	4.1	11.3	8.3	16.3	12.2	
NE	2.4	4.6	2.9	.6	.0	.0		10.5	9.4	14.6	6.2	17.1	11.0	15.6	7.0	6.7	7.8	
E	1.1	4.8	2.9	1.0	.0	.0		9.9	10.8	9.7	8.6	13.7	7.3	13.7	8.8	9.9	9.3	
SE	2.7	6.3	3.6	1.1	.0	.0		14.0	9.5	10.6	19.4	9.5	11.6	11.9	14.6	11.3	19.3	
S	1.4	6.4	4.4	.7	.1	.0		13.2	10.4	18.3	11.3	17.3	14.2	11.5	12.7	10.3	10.2	
SW	2.1	6.5	3.9	.7	.0	.0		13.2	9.3	11.2	15.7	14.3	13.4	13.1	14.6	12.3	10.5	
W	2.3	6.2	4.1	.6	.1	.0		13.3	9.6	12.1	15.4	7.3	15.7	9.6	17.3	13.7	13.0	
NW	1.0	4.6	3.2	.6	.0	.0		9.4	10.5	10.3	8.2	8.5	9.9	8.4	8.3	11.8	10.4	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	8.4							8.4	.0	6.7	9.0	8.9	12.8	4.9	8.5	7.7	7.2	
TOT OBS	266	495	308	70	2	0	1141		9.0	134	177	124	172	122	142	104	166	
TOT PCT	23.3	43.4	27.0	6.1	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	3.6	3.3	.9	.5	.0		8.2	9.6	6.4	3.8	9.7	13.8
NE	4.4	4.3	1.7	.1	.0		10.5	9.4	9.8	13.6	11.0	7.4
E	3.9	3.9	1.7	.4	.0		9.9	10.8	9.1	10.0	11.1	9.5
SE	6.1	5.9	1.5	.5	.0		14.0	9.5	15.6	10.7	13.4	16.2
S	4.4	6.5	2.1	.2	.0		13.2	10.4	14.3	15.5	12.1	10.3
SW	5.3	6.3	1.4	.1	.0		13.2	9.3	13.7	13.8	13.9	11.2
W	5.5	6.0	1.6	.2	.0		13.3	9.6	14.0	12.2	13.7	13.2
NW	2.9	4.9	1.5	.6	.0		9.4	10.5	9.1	9.3	8.3	10.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.4						8.4	.0	8.0	11.1	6.8	7.4
TOT OBS	508	468	142	23	0	1141		9.0	311	296	264	270
TOT PCT	44.5	41.0	12.4	2.0	.0		100.0		100.0	100.0	100.0	100.0

AREA 0026 URUP ISLAND
46.1N 151.2E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00103	8.0	17.0	44.1	24.8	5.8	.3	.0	8.9	100.0	311
02109	11.1	13.2	40.9	28.4	6.4	.0	.0	9.1	100.0	296
0615	6.8	10.2	45.8	32.6	4.8	.0	.0	9.3	100.0	286
1811	7.4	13.9	42.6	22.6	7.4	.0	.0	8.8	100.0	270
TOT	%	170	495	308	70	2	.0	9.0		
PCT	8.4	14.9	43.4	27.0	6.1	.2	.0	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $< 5/8$ BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL	MEAN CLOUD COVER	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH	<5/8	TOTAL
				OBSCH	CBS		149	299	599	999	1999	3499	4999	6499	7999	8000+	ANY	PCT	DBS
N	1.4	.8	1.0	4.2		5.8	1.2	.2	.2	1.9	.6	.8	.2	.0	.0	.0	.0	2.4	
NE	1.1	.3	2.2	7.7		6.9	2.3	.0	.2	1.0	2.3	2.7	.5	.2	.2	.2	.0	1.6	
E	.4	.9	2.1	8.9		7.1	1.7	.2	.2	1.8	3.8	2.4	.4	.0	.2	.0	.0	1.7	
SE	1.3	.7	1.7	5.9		6.4	2.8	.2	.4	.8	1.3	.9	.2	.0	.0	.2	.2	1.8	
S	2.2	.6	5.1	7.4		6.2	3.9	.2	.4	1.0	2.4	2.3	.2	.2	.2	.0	.0	4.5	
SW	3.8	1.6	2.7	4.4		5.0	2.4	.0	.4	.1	2.0	1.0	.3	.0	.2	.0	.0	6.3	
W	5.9	1.4	3.7	3.3		4.1	1.7	.2	.0	.6	1.3	.9	.4	.4	.0	.0	.0	8.9	
NW	3.0	1.3	2.1	3.9		4.9	.5	.3	.2	1.6	1.6	.3	.2	.0	.0	.2	.5	5.5	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.0	1.0	.8	3.2		5.0	.4	.0	.0	.2	.4	.2	.2	.0	.0	.0	.0	3.7	
TOT OBS	104	42	105	242		493	93	6	10	44	77	56	12	4	4	3	184		493
TOT PCT	21.1	8.5	21.3	49.1	100.0		18.9	1.2	2.0	8.9	15.6	11.4	2.4	.8	.8	.6	37.3		100.0

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NM)							
	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >5000	.8	.8	1.2	1.2	1.2	1.2	1.2	1.2
OR >5000	1.4	1.6	2.0	2.0	2.0	2.0	2.0	2.0
OR >3500	2.4	3.8	4.4	4.4	4.4	4.4	4.4	4.4
OR >2000	8.0	11.9	14.5	14.9	15.3	15.3	15.7	15.7
OR >1000	14.9	24.5	29.4	29.8	30.4	30.6	31.2	31.2
OR >600	17.9	29.2	35.4	37.4	38.8	39.0	39.6	39.6
OR >300	18.5	30.0	36.8	39.2	41.4	41.6	42.1	42.1
OR >150	19.1	30.6	37.6	40.0	42.3	42.5	43.3	43.3
OR >0	19.3	31.6	39.8	43.7	46.9	51.5	59.2	62.2
TOTAL	97	159	200	210	236	259	298	313

PCT FREO NH 65/81 37.8

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.0	6.7	8.6	4.5	4.3	3.5	5.8	7.4	20.3	17.3	530

SEPTEMBER

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1904-1974

TABLE 8

AREA 0026 URUP ISLAND
46.1N 151.2EPERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.6	.7	.6	.4	*	.1	.0	.0	.0	2.6	
	NO PCP	1.9	1.7	1.6	2.0	3.0	3.1	1.4	.9	.0	2.5	17.4	
	TOT %	1.4	2.4	2.3	2.5	3.4	3.2	1.6	.9	.0	2.5	20.2	
1/2<1	PCP	.2	.4	.3	.6	.5	.1	*	.2	.0	.3	2.6	
	NO PCP	.1	.2	.0	.3	.3	.2	*	.2	.0	.1	1.4	
	TOT %	.3	.6	.3	.9	.7	.3	.1	.4	.0	.4	4.0	
1<2	PCP	.3	.8	.5	.5	.4	.1	*	.0	.0	.0	2.7	
	NO PCP	.2	.5	.2	.2	.2	.2	.3	.2	.0	.0	2.0	
	TOT %	.5	1.3	.7	.7	.7	.3	.3	.2	.0	.0	4.7	
2<5	PCP	.1	.5	.7	.5	.1	.3	.0	.0	.0	.1	2.2	
	NO PCP	.4	.8	.4	.7	.6	.9	.3	.7	.0	.2	5.0	
	TOT %	.5	1.2	1.1	1.1	.7	1.1	.3	.7	.0	.3	7.2	
5<10	PCP	.1	.5	.8	.7	.0	*	.1	.1	.0	.0	2.2	
	NO PCP	1.2	1.4	1.9	2.0	2.8	2.1	3.4	2.1	.0	1.5	18.3	
	TOT %	1.3	1.9	2.6	2.7	2.8	2.1	3.4	2.2	.0	1.5	20.6	
10+	PCP	.0	.0	.1	.5	.2	.1	.2	.1	.0	.1	1.3	
	NO PCP	3.4	3.6	3.7	3.6	4.9	5.4	7.9	5.3	.0	3.7	42.1	
	TOT %	3.4	3.6	3.8	4.1	5.0	5.5	8.1	5.5	.0	3.8	43.4	
TOT OBS													1070
TOT PCT													8.0 11.0 10.9 12.0 13.3 12.6 13.8 9.9 .0 8.5 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.9	1.6	.2	1.1	.4	.5	.2	.4	.0	2.6	8.0	
	4-10	.9	2.0	1.6	1.8	1.5	2.1	1.0	.6	.0		11.4	
	11-21	.3	.4	.5	.4	1.5	.9	.6	.2	.0		4.7	
	22+	.0	*	.2	.3	.3	.2	.1	.0	.0		1.1	
	TOT %	2.0	3.9	2.5	3.7	3.7	3.6	2.0	1.1	.0	2.6	25.2	
1/2<1	0-3	.2	.2	.0	.1	.0	.1	.1	.0	.0	.4	1.0	
	4-10	.1	.3	*	.4	.3	*	.2	.4	.0		1.7	
	11-21	.1	.1	.2	.1	.3	.3	.0	.0	.0		1.1	
	22+	.1	*	.1	.2	.1	.0	.0	*	.0		.5	
	TOT %	.4	.6	.3	.8	.8	.4	.3	.4	.0	.4	4.3	
1<2	0-3	.0	*	.1	*	.0	*	.2	.0	.0	.3	.7	
	4-10	.3	.3	.4	.4	.5	.4	.4	.4	.0		3.0	
	11-21	.1	.7	.2	.4	.2	.1	.1	*	.0		1.7	
	22+	.3	.0	.1	.2	*	.1	.0	.0	.0		.7	
	TOT %	.6	1.0	.8	1.1	.7	.6	.7	.4	.0	.3	6.2	
2<5	0-3	.0	.1	.1	.7	.2	.5	*	.1	.0	.4	2.2	
	4-10	.2	.4	.3	.6	.4	.9	.3	.2	.0		3.3	
	11-21	.2	.3	.3	.6	.5	.2	.0	.3	.0		2.5	
	22+	.1	.3	.3	.1	*	.2	.0	.2	.0		1.3	
	TOT %	.6	1.0	1.1	2.1	1.1	1.9	.4	.7	.0	.4	9.3	
5<10	0-3	.3	.1	.2	.3	.4	.2	.3	.1	.0	1.4	3.3	
	4-10	.6	.9	.9	1.1	1.0	1.2	1.3	1.3	.0		8.4	
	11-21	.2	.4	.8	1.1	.6	.2	1.0	.5	.0		5.0	
	22+	*	.2	.2	.0	.2	.2	.2	.1	.0		1.1	
	TOT %	1.2	1.7	2.1	2.6	2.3	1.8	2.7	2.1	.0	1.4	17.8	
10+	0-3	.5	.4	.5	.5	.3	.6	1.4	.4	.0	3.2	8.0	
	4-10	1.9	.8	1.5	1.9	2.8	2.1	2.9	1.9	.0		15.8	
	11-21	.7	1.1	.9	1.2	1.2	2.1	2.4	2.2	.0		11.8	
	22+	.3	*	.2	.1	.2	.1	.4	.3	.0		1.6	
	TOT %	3.5	2.4	3.1	3.8	4.5	4.9	7.1	4.7	.0	3.2	37.2	
TOT OBS													1117
TOT PCT													8.3 10.6 9.9 14.0 13.1 13.1 13.2 9.3 .0 8.3 100.0

SEPTEMBER

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1904-1974

AREA 0026 URUP ISLAND
46.1N 151.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00003	18.5	2.4	3.0	8.3	11.9	11.3	4.2	1.2	1.8	.6	63.1	36.9	168
06009	19.4	1.4	2.8	5.6	19.4	11.8	1.4	1.4	.0	.7	63.9	36.1	144
12015	20.7	.9	.9	11.7	9.0	10.8	2.7	.0	.9	.9	58.6	41.4	111
18021	15.8	.0	3.0	8.9	19.8	8.9	1.0	.0	.0	.0	57.4	42.6	101
TOT	98	7	13	44	78	57	13	4	4	3	321	203	524
PCT	18.7	1.3	2.5	8.4	14.9	10.9	2.5	.8	.8	.6	61.3	38.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	22.9	3.7	2.0	8.6	19.8	42.1	349
06009	22.6	6.2	7.7	9.9	13.9	39.6	323
12015	27.3	1.8	7.9	9.7	17.6	35.6	278
18021	23.4	4.4	6.1	9.5	22.0	34.6	295
TOT	298	31	79	117	228	476	1245
PCT	23.9	4.1	6.0	9.4	18.3	38.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <3/8 AND 5+	TOTAL OBS
00003	17.8	24.5	35.6	28.2	36.2	163
06009	19.3	26.4	38.6	26.4	35.0	140
12015	22.5	29.4	45.1	19.6	35.3	102
18021	16.3	22.4	41.8	20.4	37.8	98
TOT	95	129	199	123	181	503
PCT	18.9	25.6	39.6	24.5	36.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.3	.0	.3	.0	.0	.0	2	.7
65/69	.0	.0	.0	.0	.0	.3	.3	.0	2	.7
60/64	.0	.3	.0	.0	.3	.7	2.8	1.7	17	5.9
55/59	.0	.0	.0	.3	.3	2.8	10.5	10.5	70	24.5
50/54	.0	.0	.0	.3	1.7	1.4	15.0	22.0	116	40.6
45/49	.0	.0	.0	.0	.0	2.4	5.9	14.0	64	22.4
40/44	.0	.0	.0	.0	.0	.0	1.4	3.1	13	4.5
35/39	.0	.0	.0	.0	.0	.0	.0	.7	2	.7
TOTAL	0	1	1	2	8	22	103	149	286	100.0
PCT	.0	.3	.3	.7	2.8	7.7	36.0	52.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.3	.0	.0	.3	.0	.0	.0	.0
.0	.0	.0	.0	.3	.0	.3	.1	.0	.0
.0	.4	.3	.3	2.0	1.2	1.3	.0	.0	.3
1.0	1.8	3.1	3.9	3.9	3.9	3.1	3.4	.0	.3
2.8	4.9	4.5	3.6	6.2	5.4	7.8	4.0	.0	1.4
1.9	1.9	1.1	.5	3.2	3.4	4.8	3.7	.0	1.7
.7	.7	.7	.0	.7	.4	.9	.4	.0	.0
.3	.3	.0	.0	.0	.0	.0	.0	.0	.0
6.7	10.1	10.0	8.4	16.4	14.8	18.1	11.6	.0	3.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	72	66	63	54	46	41	37	53.9	348
06009	70	66	63	52	45	40	36	52.6	323
12015	62	61	57	50	43	39	39	50.3	277
18021	72	63	57	50	43	40	37	50.5	296
TOT	72	66	61	52	45	40	36	51.9	1244

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.3	2.2	10.0	32.2	52.2	88	90
06009	.0	1.4	5.4	9.5	40.5	43.2	87	74
12015	.0	.0	1.6	4.9	32.8	60.7	92	61
18021	.0	.0	1.5	6.2	38.5	53.8	90	65
TOT	0	4	8	23	104	151	89	290

SEPTEMBER

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1904-1974

AREA 0026 URUP ISLAND
46.1N 151.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	WU FOG
23/23	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.4	.2	.1	.1	8	.1	.7
14/16	.0	.0	.0	.0	.0	.4	.7	.8	.2	.1	22	.3	1.8
11/13	.0	.0	.0	.1	1.3	1.4	1.4	.7	.1	.0	51	1.5	3.4
9/10	.0	.0	.0	1.0	.9	1.2	1.3	.8	.0	.0	52	1.4	3.6
7/8	.0	.0	.0	1.9	2.2	2.2	2.0	.5	.1	.0	93	2.5	6.5
6	.0	.0	.0	.3	.6	.5	.2	.1	.0	.0	17	.3	1.4
5	.0	.0	.4	2.7	2.8	2.6	1.5	.5	.0	.0	109	3.5	7.0
4	.0	.0	.5	2.9	3.9	2.7	1.3	.4	.2	.0	122	4.1	7.6
3	.0	.0	.2	.4	1.0	1.4	.8	.2	.0	.1	41	.9	3.1
2	.0	.0	.7	5.4	3.6	2.7	1.4	.1	.0	.0	144	3.7	10.2
1	.0	.0	.6	.7	1.3	1.1	.1	.0	.0	.0	38	.6	3.1
0	.0	.0	.7	3.6	3.9	2.1	.7	.3	.0	.0	116	2.8	8.4
-1	.0	.1	.0	.9	.8	.4	.4	.1	.0	.0	27	.2	2.4
-2	.0	.1	.2	2.8	2.5	1.8	.5	.3	.0	.0	85	1.3	6.9
-3	.0	.2	.0	.8	.9	.1	.1	.0	.0	.0	21	.4	1.6
-4	.0	.2	.3	1.1	1.4	.7	.1	.0	.0	.0	38	.9	2.8
-5	.0	.0	.0	.8	.5	.3	.0	.0	.0	.0	16	.1	1.4
-6	.0	.0	.1	.1	.1	.2	.0	.0	.0	.0	5	.1	.4
-7/-8	.2	.0	.2	.5	.3	.2	.0	.0	.0	.0	14	.6	.8
-9/-10	.0	.1	.0	.5	.1	.1	.0	.0	.0	.0	8	.2	.6
-11/-13	.0	.1	.0	.4	.0	.2	.0	.0	.0	.0	7	.0	.7
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	9	39	276	287	230	132	51	8	3	1037	263	774
PCT	.2	.9	3.8	26.6	27.7	22.2	12.7	4.9	.8	.3	100.0	25.4	74.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.3	.9	.0	.0	.0	.0	1.2
1-2	.0	1.1	.3	.0	.0	.0	1.4	.0	.8	1.5	.0	.0	.0	2.3
3-4	.0	.3	1.9	.0	.0	.0	2.2	.0	.9	3.6	.0	.0	.0	4.5
5-6	.0	.2	.2	.3	.0	.0	.8	.0	.3	1.3	.9	.0	.0	2.6
7	.0	.0	.5	.3	.0	.0	.9	.0	.0	.6	.1	.0	.0	.7
8-9	.0	.3	.3	.0	.0	.0	.6	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.2	.5	.0	.0	.8	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	3.5	1.4	.0	.0	6.8	.3	2.9	7.1	1.4	.0	.0	11.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.3	.3	.0	.0	.0	1.2	.1	1.9	.0	.0	.0	.0	1.9
1-2	.3	3.6	.9	.0	.0	.0	4.9	.0	.8	2.2	.0	.0	.0	2.9
3-4	.0	.6	2.2	.3	.0	.0	3.2	.0	.1	1.4	.6	.0	.0	2.1
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.5	.3	.0	.0	.8
7	.0	.0	1.2	.9	.0	.0	2.1	.1	.0	.0	.3	.0	.0	.4
8-9	.0	.2	.2	.5	.0	.0	1.0	.0	.1	.1	.1	.0	.0	.2
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.8	6.6	2.0	.0	.0	14.2	.2	2.8	4.1	1.3	.0	.0	8.4

PERIOD: (OVER-ALL) 1963-1974

SEPTEMBER

AREA 0026 URUP ISLAND
46.1N 151.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	1.2	.6	.0	.0	.0		2.2	.3	1.9	.0	.0	.0	.0		2.2
1-2	.0	3.1	.9	.0	.0	.0		4.0	.3	4.5	1.4	.0	.0	.0		6.2
3-4	.0	.5	2.2	.0	.0	.0		2.6	.0	1.4	2.2	.0	.0	.0		3.6
5-6	.0	.0	.9	.0	.0	.0		.9	.0	.0	.7	.4	.0	.0		1.1
7	.5	.0	.3	.3	.0	.0		1.2	.0	.1	1.0	.0	.0	.0		1.1
8-9	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.3	.0	.0		.3
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.0		.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.3	.0	.0		.3
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.9	4.8	9.0	.5	.0	.0		11.1	.6	7.8	5.3	1.1	.0	.0		14.8

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	2.1	.0	.0	.0	.0		2.1	.0	.7	.0	.0	.0	.0		.7
1-2	.0	1.8	.8	.0	.0	.0		2.6	.0	1.7	1.2	.0	.0	.0		2.9
3-4	.0	.5	1.9	.3	.0	.0		2.6	.0	.6	2.0	.3	.0	.0		2.9
5-6	.0	.3	1.3	.8	.3	.0		2.7	.0	.1	.8	.4	.0	.0		1.2
7	.0	.2	1.5	.3	.0	.0		2.0	.0	.0	.7	.0	.0	.0		.7
8-9	.0	.0	.2	.0	.0	.0		.2	.0	.0	.4	.3	.0	.0		.7
10-11	.0	.0	.3	.2	.0	.0		.5	.0	.0	.4	.4	.0	.0		.8
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0		.1
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	5.0	6.0	1.6	.3	.0		12.9	.0	3.1	5.5	1.5	.0	.0		10.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.1	9.0	.9	.0	.0	.0	21.0	
1-2	.6	17.3	9.3	.0	.0	.0	27.2	
3-4	.0	4.9	17.3	1.5	.0	.0	23.8	
5-6	.6	.9	6.8	3.1	.3	.0	11.7	
7	.6	.3	5.9	2.2	.0	.0	9.0	
8-9	.0	.6	1.2	1.9	.0	.0	3.7	
10-11	.0	.0	1.2	1.2	.0	.0	2.5	
12	.0	.0	.0	.6	.0	.0	.6	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.3	.3	.0	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.0	33.0	42.9	10.8	.3	.0	100.0	324

PERIOD: (OVER-ALL) 1950-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	13.3	11.2	5.8	3.2	.4	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	186	3
6-7	.0	2.2	4.8	6.0	2.8	2.0	.8	.2	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	98	5
8-9	.0	.8	3.0	3.4	5.8	2.6	.6	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	83	6
10-11	.0	1.6	.6	.8	1.0	2.0	.2	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	6
12-13	.0	.0	1.2	.2	.4	.2	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	7
>13	.0	.0	.0	.2	.0	.0	.4	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	11
INDET	5.8	.8	4.6	2.0	.6	1.0	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	3
TOTAL	41	94	127	92	89	41	18	5	11	2	2	0	0	0	0	0	0	0	0	502	5
PCT	8.2	18.7	25.3	18.3	13.7	8.2	3.6	1.0	2.2	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1900-1974AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	7.2	.0	6.2	.0	.0	.0	.0	13.4	1.4	.0	2.4	.0	1.0	.0	81.7
NE	17.0	.5	2.6	.0	.0	.0	.0	20.1	8.2	.0	9.3	.0	.0	2.1	60.3
E	25.7	1.3	7.5	.0	.0	.0	.0	33.2	3.5	.0	11.9	.0	.0	.0	51.3
SE	18.7	1.4	7.1	.0	1.4	.0	.0	28.3	6.0	.0	8.8	1.4	.0	.0	55.5
S	10.6	.6	6.9	.0	.0	.0	.0	17.5	3.1	.0	14.6	1.5	.6	.0	62.7
SW	4.8	.2	1.5	.0	.0	.0	.0	6.3	.7	.0	15.4	.2	.8	.7	76.0
W	1.4	.0	2.6	.0	.5	.0	.0	4.5	.0	.0	1.9	.0	.0	.0	93.6
NW	5.0	.0	.4	.0	1.0	.0	.0	6.3	1.5	.0	1.5	.0	.2	.8	89.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0	.0	.0	.0	.0	.0	.0	4.0	.0	.0	4.0	.0	.0	.0	92.0
TOT PCT	8.6	.4	3.6	.0	.4	.0	.0	12.7	2.2	.0	8.0	.4	.4	.4	76.1
TOT OBS:	830														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	10.2	.9	3.0	.0	.9	.0	.0	14.5	.4	.0	10.6	.4	.0	.4	73.6
06009	6.2	.0	2.5	.0	.0	.0	.0	8.7	4.1	.0	6.6	.0	.4	.8	79.3
12015	9.5	.0	4.0	.0	.5	.0	.0	14.0	2.0	.0	5.0	.5	.5	.5	77.5
18021	9.8	.5	4.9	.0	.0	.0	.0	14.8	2.2	.0	10.4	.5	.5	.0	71.6
TOT PCT TOT OBS:	8.8	.3	3.5	.0	.3	.0	.0	12.8	2.2	.0	8.1	.3	.3	.5	75.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47							00	03	06	09	12	15	18	21
N	.3	2.8	3.9	1.3	.2	.0			8.5	15.1		10.3	9.4	7.4	6.9	10.9	8.3	5.6	8.1
NE	.1	2.3	2.3	.6	.3	.0			5.6	13.7		5.9	4.9	9.1	2.6	5.3	3.5	3.9	7.1
E	.2	2.2	3.3	.6	.0	.0			6.3	13.5		7.2	6.6	7.6	3.9	8.2	1.8	4.2	7.1
SE	.6	3.3	3.4	1.0	.5	.0			8.7	13.5		9.0	9.4	9.1	8.9	8.0	9.2	7.0	9.1
S	1.1	6.2	5.9	1.0	.3	.0			14.1	12.1		15.3	17.7	9.7	13.2	12.2	14.0	12.1	22.7
SW	.6	7.7	7.7	1.3	.3	.0			17.5	12.6		14.2	19.8	14.2	20.1	19.3	18.9	22.2	15.6
W	.3	4.7	10.9	2.5	.5	.0			18.8	15.8		20.8	15.6	22.5	19.7	19.3	14.0	18.0	14.6
NW	.1	5.0	7.4	3.9	.6	.0			17.0	16.3		13.1	16.7	17.4	20.7	11.8	26.8	21.3	15.6
VAR	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4								3.4	.0		4.4	.0	3.0	3.9	5.0	3.5	5.6	.0
TOT OBS	51	260	339	92	20	0	758		13.7			136	72	132	76	119	57	89	77
TOT PCT	6.7	34.3	44.2	12.1	2.6	.0	100.0					100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40								00	06	12	18
N	.9	4.9	1.6	1.1	.0				8.5	15.1		10.0	7.2	10.1	6.8
NE	1.3	3.2	.8	.3	.1				5.6	13.7		5.5	6.7	4.7	5.4
E	1.0	3.4	1.6	.2	.0				6.3	13.5		7.0	6.3	6.1	5.6
SE	1.9	4.2	1.8	.6	.2				8.7	13.5		9.1	9.0	8.4	8.0
S	3.4	7.5	2.7	.4	.1				14.1	12.1		16.1	10.9	12.9	17.0
SW	3.0	10.6	3.4	.6	.0				17.5	12.6		16.1	16.3	19.2	19.1
W	1.6	9.9	3.9	1.2	.2				18.8	15.8		19.0	21.5	17.6	16.4
NW	1.9	8.2	4.7	2.1	.6				17.0	16.3		14.3	18.6	16.6	18.7
VAR	.0	.0	.0	.0	.0				.0	.0		.0	.0	.0	.0
CALM	3.4								3.4	.0		2.9	3.4	4.5	3.0
TOT OBS	140	393	171	49	5	758			13.7			208	208	176	166
TOT PCT	18.5	51.8	22.6	6.5	.7	100.0						100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1900-1974

OCTOBER

AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			49+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.9	3.4	33.7	43.8	13.0	3.4	.0	14.1	100.0	208
0600	3.4	2.4	35.6	41.8	13.9	2.9	.0	14.0	100.0	208
1200	4.5	2.8	29.5	51.1	10.2	1.7	.0	13.7	100.0	176
1800	3.0	4.8	38.6	40.4	10.8	2.4	.0	12.9	100.0	166
TOT	26	25	260	335	92	20	0	13.7		758
PCT	3.4	3.3	34.3	44.2	12.1	2.6	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.9	3.0	3.5		6.0
NE	.6	.5	1.6	3.5		6.5
E	.2	.2	1.7	5.0		7.3
SE	.6	.3	2.1	5.3		6.9
S	2.3	.9	4.6	6.0		6.0
SW	5.8	2.1	5.7	3.9		4.4
W	5.8	3.4	6.8	3.6		4.4
NW	3.8	3.4	4.3	3.7		4.8
VAR	.0	.0	.0	.0		.0
CALM	2.0	.2	.5	1.2		3.6
TOT OBS	132	71	180	212	595	5.3
TOT PCT	22.2	11.9	30.3	35.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.4	.1	.2	1.6	1.9	1.2	.2	.0	.0	.0	2.9	
NE	1.3	.0	.2	.5	1.2	1.1	.7	.0	.0	.0	1.3	
E	2.0	.2	.6	.8	1.1	.9	.2	.0	.2	.0	1.1	
SE	.8	.3	.4	.9	2.4	1.4	.2	.0	.2	.2	1.6	
S	2.7	.0	.5	2.3	1.9	1.5	.8	.1	.0	.0	3.9	
SW	1.2	.0	.7	1.3	1.6	2.8	1.0	.2	.0	.0	8.7	
W	.8	.0	.4	.8	2.1	2.8	1.2	.2	.0	.2	11.2	
NW	.6	.0	.2	1.8	2.8	1.9	.0	.0	.2	.0	7.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.0	.0	.7	.3	.2	.2	.0	2.2	
TOT OBS	61	4	19	59	89	85	27	4	4	2	241	595
TOT PCT	10.3	.7	3.2	9.9	15.0	14.3	4.5	.7	.7	.3	40.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	OR			VSBY (NM)			OR >50YD	OR >0
	>10	>5	>2	>1	>1/2	>1/4		
OR >6500	.8	.8	1.0	1.0	1.0	1.0	1.0	1.0
OR >4000	1.5	1.5	1.7	1.7	1.7	1.7	1.7	1.7
OR >3500	4.1	6.0	6.6	6.8	6.8	6.8	6.8	6.8
OR >2000	12.3	18.4	20.0	20.4	20.5	20.5	20.5	20.5
OR >1000	17.5	30.3	34.3	34.9	35.4	35.4	35.4	35.4
OR >800	21.2	36.9	42.9	44.7	45.2	45.4	45.4	45.4
OR >300	21.9	38.4	45.5	47.7	48.2	48.3	48.5	48.5
OR >150	22.0	38.6	45.7	48.0	48.7	48.8	49.0	49.0
OR > 0	22.0	39.6	48.2	52.3	54.8	57.0	58.9	59.9
TOTAL	193	239	291	316	328	344	356	362

TOTAL NUMBER OF OBS: 604

PCT FREQ NM <5/8: 40.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	8.5	8.4	10.2	7.2	6.0	8.2	8.7	9.9	22.9	668

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1900-1974

OCTOBER

AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.4	.4	.1	.4	.1	.1	*	.0	.1	1.6	
	NO PCP	.9	.3	.2	.5	1.5	1.8	.2	*	.0	.1	5.0	
	TOT %	.9	.7	.6	.6	1.9	1.9	.3	.1	.0	.2	6.5	
1/2<1	PCP	.0	.1	.1	.4	.2	.2	.3	.2	.0	.0	1.6	
	NO PCP	.0	.0	.1	.1	.3	*	.0	.1	.0	.0	.7	
	TOT %	.0	.1	.2	.5	.6	.2	.3	.3	.0	.0	2.3	
1<2	PCP	.0	.4	.5	.3	.4	.1	.1	.4	.0	.0	2.2	
	NO PCP	.0	.3	.3	.2	.5	.4	.2	.2	.0	.0	1.9	
	TOT %	.0	.7	.9	.4	.8	.5	.3	.5	.0	.0	4.1	
2<5	PCP	.7	.1	.7	1.3	1.1	.3	.0	.1	.0	.0	4.2	
	NO PCP	.2	.5	.6	.7	1.4	1.1	.6	.7	.0	.1	5.9	
	TOT %	.9	.5	1.3	2.0	2.5	1.4	.6	.8	.0	.1	10.2	
5<10	PCP	.4	.2	.5	.4	.5	.4	.3	.3	.0	.0	3.0	
	NO PCP	2.3	1.2	1.6	1.5	3.4	5.0	4.3	4.9	.0	.4	24.7	
	TOT %	2.7	1.4	2.2	1.9	3.9	5.4	4.7	5.2	.0	.4	27.7	
10+	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	4.7	2.4	1.7	3.2	4.8	8.8	12.6	8.7	.0	2.3	49.1	
	TOT %	4.7	2.4	1.7	3.2	4.8	8.9	12.6	8.7	.0	2.3	49.2	
TOT OBS		8.6	5.9	6.8	8.6	14.5	18.3	18.8	15.6	.0	3.0	100.0	827
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.7	
	4-10	.1	.3	.2	.6	1.0	1.1	.0	.1	.0	.3	3.5	
	11-21	.1	.4	.1	.3	.4	.1	.3	.0	.0	.0	1.8	
	22+	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.3	
	TOT %	.2	.5	.6	.9	1.4	1.7	.1	.4	.0	.3	6.3	
1/2<1	0-3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.1	.3	.5	.2	.3	.0	.0	1.4	
	11-21	.0	.0	.1	.1	.3	.1	.2	.3	.0	.0	1.1	
	22+	.0	.0	.1	.4	.0	.0	.3	.4	.0	.0	1.2	
	TOT %	.0	.0	.3	.7	.8	.6	.6	1.0	.0	.0	3.9	
1<2	0-3	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.4	
	4-10	.0	.1	.1	.4	.5	.3	.1	.1	.0	.0	1.6	
	11-21	.1	.1	.4	.1	.5	.3	.3	.7	.0	.0	2.4	
	22+	.0	.3	.1	.1	.1	.1	.3	.1	.0	.0	1.2	
	TOT %	.2	.5	.6	.7	1.3	.7	.7	1.0	.0	.0	5.7	
2<5	0-3	.1	.1	.2	.1	.0	.0	.0	.0	.0	.1	.7	
	4-10	.5	.3	.4	.8	.6	.6	.7	.0	.0	.0	4.3	
	11-21	.2	.3	.5	.9	1.3	.5	.8	.8	.0	.0	5.3	
	22+	.1	.4	.1	.4	.7	.5	.1	.4	.0	.0	2.4	
	TOT %	1.0	.8	1.2	2.1	2.7	1.6	1.3	2.0	.0	.1	12.8	
5<10	0-3	.1	.0	.0	.0	.2	.1	.1	.1	.0	.3	1.0	
	4-10	.5	.5	.6	.4	1.7	1.7	1.6	1.2	.0	.0	8.2	
	11-21	1.1	.4	1.0	1.2	1.7	2.2	1.9	1.4	.0	.0	11.0	
	22+	1.0	.5	.2	.6	.1	.4	1.0	2.5	.0	.0	5.7	
	TOT %	2.7	1.4	1.8	1.7	3.7	4.4	4.6	5.2	.0	.3	25.8	
10+	0-3	.0	.0	.0	.2	.3	.3	.1	.0	.0	2.4	3.4	
	4-10	1.7	1.1	.9	1.1	2.2	3.5	2.4	2.6	.0	.0	15.4	
	11-21	2.4	1.3	1.0	1.0	1.5	3.8	7.7	4.0	.0	.0	22.7	
	22+	.4	.0	.0	.4	.3	.5	1.2	1.2	.0	.0	4.1	
	TOT %	4.4	2.4	1.9	2.7	4.3	8.1	11.4	7.8	.0	2.4	45.5	
TOT OBS		8.5	5.6	6.3	8.8	14.3	17.2	18.9	17.3	.0	3.1	100.0	736
TOT PCT													

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1900-1974

OCTOBER

AREA 0026 URUP ISLAND
46.2N 151.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 209	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	10.9	.0	2.7	12.0	18.5	9.8	7.6	1.1	1.1	.3	64.1	35.9	184
06009	7.5	1.1	3.2	10.7	14.4	18.2	4.3	.0	.3	.5	60.4	39.6	187
12015	8.6	.7	4.3	5.7	11.4	15.0	1.4	.0	.7	.0	47.9	52.1	140
18021	16.4	.8	1.6	9.4	11.7	9.4	3.5	1.6	.0	.0	56.3	43.8	128
TOT	67	4	19	62	92	85	31	4	4	2	370	269	639
PCT	10.5	.6	3.0	9.7	14.4	13.3	4.9	.6	.6	.3	57.9	42.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	7.2	2.4	6.8	12.0	24.1	47.4	249
06009	5.3	3.8	5.7	9.5	24.8	50.8	262
12015	6.1	3.8	5.2	14.6	28.3	42.0	212
18021	10.1	3.5	6.0	14.1	26.1	40.2	199
TOT	65	31	58	114	237	420	922
PCT	7.0	3.4	6.0	12.4	25.7	45.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	11.2	14.5	33.0	33.5	33.5	179
06009	7.7	12.6	27.9	34.4	37.7	183
12015	9.6	16.0	29.6	24.0	46.4	125
18021	17.1	19.7	36.8	25.6	37.6	117
TOT	66	92	190	183	231	604
PCT	10.9	15.2	31.5	30.3	38.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.3	.3	.0	.0	.7	4	1.3
55/59	.0	.0	.0	.0	.7	1.6	3.3	3.3	27	8.9
50/54	.0	.0	.0	.0	2.6	6.2	9.2	9.5	84	27.5
45/49	.0	.0	.0	1.3	2.0	7.9	11.5	16.7	120	39.3
40/44	.0	.0	.0	.3	1.0	4.3	7.5	5.9	58	19.0
35/39	.0	.0	.0	.0	.0	2.0	.7	1.3	12	3.9
TOTAL	0	0	0	6	20	67	98	114	305	100.0
PCT	.0	.0	.0	2.0	6.6	22.0	32.1	37.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.3	.0	.2	.4	.0	.3	.0	.0
.3	.4	.2	1.7	1.7	2.6	1.1	.7	.0	.0
1.1	1.1	3.0	3.0	5.2	5.4	6.3	1.2	.0	.0
3.1	1.9	2.2	3.6	5.3	4.9	9.4	7.9	.0	1.0
3.4	.2	.3	.4	1.1	4.8	5.3	3.8	.0	.0
.2	.0	.0	.0	.2	.7	1.8	.6	.0	.3
8.2	3.6	6.1	8.8	14.8	18.7	24.0	14.4	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	64	59	57	48	39	37	37	47.8	244
06009	64	61	57	47	39	36	32	47.6	261
12015	63	59	53	45	38	35	33	45.6	216
18021	66	61	55	45	39	34	32	45.8	202
TOT	66	61	55	46	39	36	32	46.8	923

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.4	10.3	23.0	27.6	35.6	84	87		
06009	.0	3.1	6.1	19.4	31.6	39.8	85	98		
12015	.0	.0	6.2	27.7	36.9	29.2	84	65		
18021	.0	.0	1.6	21.3	32.8	44.3	87	61		
TOT	0	6	20	70	99	116	85	311		

OCTOBER

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1900-1974

TABLE 17

ARE/ 0026 URUP ISLAND
46.2N 151.3EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	WD FOG
17/19	.0	.0	.0	.0	.3	.0	.0	.0	.0	2	.0	.3
14/16	.0	.0	.0	.0	.0	.3	.3	.1	.0	5	.1	.5
11/13	.0	.0	.0	.0	.2	.8	.7	.1	.1	15	.3	1.8
9/10	.0	.0	.0	.7	1.5	.5	.1	.0	.0	21	.4	2.4
7/8	.0	.0	.3	.9	.8	.8	.4	.3	.0	26	.1	3.4
6	.0	.0	.3	.5	.5	.3	.0	.0	.0	12	.1	1.5
5	.0	.3	.9	2.8	2.0	1.4	.1	.1	.0	57	1.4	6.4
4	.0	.3	.9	3.2	3.1	.8	.7	.0	.0	67	.8	8.2
3	.0	.0	1.1	2.0	1.1	.7	.3	.0	.0	38	.1	5.0
2	.0	.3	2.4	5.0	2.7	.4	.1	.0	.0	81	.8	10.1
1	.0	.0	1.1	3.1	1.1	.9	.0	.0	.0	46	.7	5.5
0	.0	.4	2.7	5.0	2.7	.3	.3	.0	.0	84	.4	10.9
-1	.0	.8	1.4	1.4	.7	.4	.1	.0	.0	35	.1	4.6
-2	.0	1.8	2.4	3.4	.9	.4	.1	.0	.0	67	.5	8.5
-3	.0	.7	.4	1.2	.4	.0	.0	.0	.0	20	.0	2.7
-4	.0	1.2	1.5	2.4	1.2	.1	.0	.0	.0	48	.8	5.7
-5	.3	1.1	2.0	2.8	.5	.3	.0	.0	.0	52	.7	6.4
-6	.1	.1	1.2	.5	.1	.1	.0	.0	.0	17	.3	2.0
-7/-8	.3	1.1	1.5	.8	.0	.1	.0	.0	.0	28	.0	3.8
-9/-10	.3	.9	.4	.5	.0	.0	.0	.0	.0	16	.5	1.6
-11/-13	.1	.3	.0	.0	.0	.0	.0	.0	.0	3	.0	.4
TOTAL	8	68	270	148	64	3.2	.7	.1	740	61	679	
PCT	1.1	9.2	20.5	36.5	20.0	8.6	3.2	.7	100.0	8.2	91.8	

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	N 22-33	34-47	48+	PCT	1-3	4-10	11-21	NE 22-33	34-47	48+	PCT
<1	.0	.5	.3	.0	.0	.0	.8	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.4	2.3	.0	.0	.0	2.8	.0	1.1	.4	.0	.0	.0	1.5
3-4	.0	.4	1.1	.0	.0	.0	1.6	.0	.1	.5	.1	.0	.0	.7
5-6	.0	.0	.4	.2	.0	.0	.8	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.8	.3	.0	.0	1.1	.0	.0	.8	.6	.0	.0	1.4
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.3	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	5.2	1.1	.5	.0	8.1	.0	1.8	2.3	1.0	.6	.0	5.6

HGT	1-3	4-10	11-21	E 22-33	34-47	48+	PCT	1-3	4-10	11-21	SE 22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	.0	1.1
1-2	.0	1.1	1.1	.0	.0	.0	2.2	.0	.4	1.2	.0	.0	.0	1.6
3-4	.0	.2	.8	.5	.0	.0	1.6	.0	.0	.6	.8	.0	.0	1.5
5-6	.0	.5	1.3	.3	.0	.0	2.1	.0	.1	.7	.6	.0	.0	1.3
7	.0	.0	.7	.2	.0	.0	.9	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.3	.0	.8
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.3	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	4.5	1.0	.0	.0	7.3	.0	1.1	4.6	1.8	.4	.0	7.8

PERIOD: (OVER-ALL) 1963-1974

OCTOBER

AREA 0026 URUP ISLAND
46.2N 151.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.3	.0	.0	.0	.0		.3	.0	2.3	.0	.0	.0	.0		2.3
1-2	.0	2.1	.8	.0	.0	.0		3.0	.0	1.8	1.8	.0	.0	.0		3.5
3-4	.0	1.4	3.5	.0	.0	.0		4.9	.0	.9	5.2	.6	.0	.0		6.6
5-6	.0	.0	2.1	.3	.0	.0		2.4	.0	.4	1.1	.1	.0	.0		1.9
7	.0	.3	.3	.0	.0	.0		.6	.0	.6	.9	.3	.0	.0		1.8
8-9	.0	.0	.3	.5	.2	.0		1.0	.0	.3	.4	.1	.4	.0		1.1
10-11	.0	.0	.2	.0	.0	.0		.2	.0	.0	.3	.1	.0	.0		.4
12	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.3	.0	.0		.3
13-16	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	4.1	7.3	1.0	.4	.0		12.8	.0	6.2	9.5	1.3	.4	.0		17.4

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.3	.3	.0	.0	.0	.0		.6	.0	.6	.0	.0	.0	.0		1.2	
1-2	.0	1.3	3.5	.0	.0	.0		4.8	.0	2.2	1.9	.0	.0	.0		4.1	
3-4	.0	.8	3.8	.0	.0	.0		4.9	.0	1.2	1.9	.3	.0	.0		3.4	
5-6	.0	.3	1.8	.2	.0	.0		2.5	.0	.3	1.6	.9	.1	.0		2.9	
7	.0	.3	2.7	.3	.0	.0		3.5	.0	.0	.6	1.4	.0	.0		2.0	
8-9	.0	.0	1.0	.3	.5	.0		1.8	.0	.0	.4	.3	.1	.0		.7	
10-11	.0	.3	.6	.4	.0	.0		1.3	.0	.0	.0	.4	.0	.0		.4	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.3	.5	.0		.8	.0	.0	.0	.3	.1	.0		.4	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.3	.0		.3	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	3.6	13.3	1.8	1.0	.0		20.0	.0	4.3	7.0	3.5	.5	.0		19.3	94.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.9	5.1	1.4	.0	.0	.0	12.4	
1-2	.0	10.5	13.0	.0	.0	.0	23.4	
3-4	.0	5.1	17.5	2.5	.0	.0	25.1	
5-6	.0	1.7	9.6	2.5	.3	.0	14.1	
7	.0	1.4	7.3	3.1	.0	.0	11.9	
8-9	.0	.3	2.8	1.1	1.4	.0	5.6	
10-11	.0	.3	1.4	1.7	.3	.0	3.7	
12	.0	.0	.0	.6	.0	.0	.6	
13-16	.0	.0	.0	.8	1.1	.0	2.0	
17-19	.0	.0	.3	.0	.3	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.3	.0	.0	.0	.3	
26-32	.0	.0	.0	.0	.3	.0	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.9	24.3	53.7	12.4	3.7	.0	100.0	354

PERIOD: (OVER-ALL) 1952-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	5.4	8.7	4.4	4.5	2.7	.3	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	170	4
6-7	.0	1.0	5.9	4.9	6.4	4.2	2.2	.5	.7	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	158	7
8-9	.0	.2	1.3	1.6	3.4	1.5	1.0	.5	1.7	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	69	8
10-11	.0	.7	1.0	1.0	.7	1.0	1.8	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	7
12-13	.0	.0	.2	.7	.0	.5	.8	.5	.2	.3	.3	.2	.2	.0	.0	.0	.0	.0	.0	23	11
>13	.0	.0	.0	.3	.7	.2	.3	.3	.2	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	16	12
INDRY	3.0	3.9	5.7	4.4	1.5	.3	1.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	120	4
TOTAL	28	66	136	104	102	62	45	17	18	10	3	5	1	0	0	0	0	0	0	597	6
PCT	4.7	11.1	22.8	17.4	17.1	10.4	7.5	2.8	3.0	1.7	.5	.8	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1919-1974

NOVEMBER

AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	2.1	.0	.0	.0	7.7	.0	.0	9.8	7.7	.0	.0	.0	.0	.0	82.5
NE	3.3	.0	6.7	.0	28.3	.0	.0	38.3	.0	.0	.0	.0	.0	.0	61.7
E	10.2	.0	4.5	.0	3.4	.0	.0	18.2	4.5	.0	22.7	.0	.0	.0	54.5
SE	15.2	.0	1.0	.0	7.6	.0	.0	23.8	4.8	.0	2.9	.0	.0	.0	68.6
S	12.4	.0	6.2	.0	2.3	.0	.0	18.6	5.6	.0	11.3	.0	.0	.0	64.4
SW	1.6	.0	1.6	.0	1.2	.0	1.6	4.3	13.3	.0	5.1	.0	1.6	.0	75.7
W	.0	1.4	.7	.0	14.2	.7	1.4	17.8	8.3	.0	.0	.0	.7	1.8	71.5
NW	.0	.0	1.7	.0	7.1	.0	.0	8.8	10.5	.0	.0	.0	2.6	.4	77.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	9.1	.0	.0	.0	81.8
TOT PCT	2.9	.4	1.9	.0	8.4	.2	.6	13.8	8.6	.0	3.1	.0	1.0	.6	72.7
TOT OBS:	477														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	.7	.7	2.1	.0	8.5	.0	.7	12.8	9.9	.0	5.7	.0	2.1	.7	68.8
0600	.7	.0	.7	.0	7.9	.0	1.4	10.8	11.5	.0	2.9	.0	.7	1.4	72.7
1200	6.5	.9	.9	.0	10.2	.0	.0	16.7	3.7	.0	.9	.0	.0	.0	78.7
1800	5.7	.0	3.8	.0	6.7	1.0	.0	16.2	6.7	.0	1.9	.0	1.0	1.0	73.3
TOT PCT	3.0	.4	1.8	.0	8.3	.2	.6	13.8	8.3	.0	3.0	.0	1.0	.8	73.0
TOT OBS:	494														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	3.9	3.0	1.4	.4	.0		8.9	14.6		9.6	9.7	4.6	14.7	6.2	.0	15.0	6.3
NE	.0	1.4	.7	1.1	.3	.0		3.4	17.6		5.1	5.6	4.6	3.7	1.4	.0	2.3	1.6
E	.0	1.5	2.0	.8	.0	.0		4.3	14.8		2.2	2.8	5.9	2.9	1.4	8.3	5.4	17.2
SE	.0	1.5	2.2	.6	.0	.0		4.3	14.2		4.8	11.1	4.3	.0	1.4	4.2	5.8	9.4
S	.0	2.6	5.9	1.5	.0	.0		10.0	15.3		15.4	13.9	6.9	2.2	7.6	27.1	10.0	3.1
SW	.0	3.4	6.9	1.5	1.1	.1		12.9	16.4		14.0	2.8	15.5	10.3	14.9	14.6	9.6	15.6
W	.0	3.9	13.8	8.7	3.0	.4		29.5	21.1		26.4	20.8	30.9	27.2	36.2	29.2	26.6	26.6
NW	.5	3.2	11.7	6.1	3.0	.3		24.9	20.5		22.5	33.3	27.3	39.0	23.6	8.3	21.2	20.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0		.0	.0	.0	.0	7.2	8.3	1.5	.0
TOT OBS	10	81	174	82	29	3	379		18.1		89	18	76	34	69	12	65	16
TOT PCT	2.6	21.4	45.9	21.6	7.7	.8		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.3	4.8	1.8	1.0	.0		8.9	14.6	9.6	7.7	5.2	13.3	
NE	.6	1.2	1.1	.3	.0		3.4	17.6	5.1	4.3	1.2	2.2	
E	.7	1.6	1.9	.0	.0		4.3	14.8	2.2	2.8	5.0	2.5	7.7
SE	1.1	1.8	1.1	.2	.0		4.3	14.2	4.8	11.1	4.3	1.9	6.5
S	.9	5.5	2.6	.9	.0		10.0	15.3	15.4	13.9	6.9	10.5	8.6
SW	1.6	6.6	2.8	1.9	.1		12.9	16.4	14.0	2.8	15.5	14.8	10.8
W	1.2	11.4	9.8	5.3	1.7		29.5	21.1	26.4	20.8	30.9	35.2	28.7
NW	1.1	9.7	8.6	3.9	1.6		24.9	20.5	22.5	33.3	27.3	21.3	21.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	.0	.0	.0	7.4	1.2
TOT OBS	39	162	113	51	14	379		18.1	89	18	76	81	81
TOT PCT	10.3	42.7	29.8	13.5	3.7		100.0		100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1913-1974

NOVEMBER

AREA 0026 URUP ISLAND
46.2N 151.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.0	.9	18.7	49.5	22.4	6.5	1.9	18.9	100.0	107
06009	.0	1.8	20.0	43.6	26.4	8.2	.0	19.2	100.0	110
12019	7.4	.0	13.6	55.6	13.6	8.6	1.2	16.9	100.0	81
18021	1.2	.0	34.6	34.6	22.2	7.4	.0	18.9	100.0	81
TOT	7	3	81	174	82	29	3	18.1		379
PCT	1.8	.8	21.4	45.9	21.6	7.7	.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.8	4.0	2.1		6.2
NE	.0	.0	.7	2.2		7.9
E	.2	.0	.6	3.8		7.5
SE	.1	.0	.6	4.0		7.6
S	.5	.3	3.2	5.2		6.8
SW	1.4	1.8	6.0	4.2		5.8
W	3.8	3.8	15.2	8.4		9.7
NW	1.9	3.9	12.1	6.6		5.6
VAR	.0	.0	.0	.0		.0
CALM	.8	.0	.3	1.3		5.1
TOT OBS	34	41	169	146	390	6.0
TOT PCT	8.8	10.6	42.7	37.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.7	.0	.4	.3	1.9	.8	.5	.3	.0	.5	1.8	
NE	.6	.0	.5	.3	.6	.6	.3	.0	.0	.0	.0	
E	1.5	.0	.3	.5	.8	.7	.0	.0	.0	.3	.6	
SE	.8	.0	.1	.0	1.4	1.9	.0	.0	.0	.0	.5	
S	1.6	.0	.5	1.0	1.0	1.0	.3	.0	.3	.3	3.4	
SW	1.0	.0	.3	.6	2.5	4.5	.8	.0	.0	.3	3.3	
W	2.8	.0	1.1	1.4	6.6	6.7	2.2	.3	.0	.0	10.1	
NW	.9	.0	1.1	2.5	6.1	5.1	1.9	.0	.0	.6	6.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.0	.3	.0	.5	.0	.3	.0	.0	.8	
TOT OBS	40	0	16	25	81	85	23	3	1	7	104	386
TOT PCT	10.4	.0	4.1	6.7	21.0	22.0	6.0	.8	.3	1.8	26.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6
>5000	.8	2.1	2.3	2.3	2.3	2.3	2.3	2.3
>3500	3.6	7.5	8.3	8.3	8.3	8.3	8.3	8.3
>2000	15.2	24.5	28.2	29.5	30.2	30.5	30.5	30.5
>1000	23.5	41.6	47.8	50.4	51.4	51.7	51.9	51.9
>800	25.6	46.3	53.0	56.3	57.9	58.4	58.7	58.7
>300	26.9	48.8	56.1	59.4	61.0	61.8	62.8	62.8
>150	26.9	48.8	56.1	59.4	61.0	61.8	62.8	62.8
>0	27.6	50.6	59.7	64.1	68.2	70.3	73.6	73.6
TOTAL	107	196	231	248	264	272	285	285

TOTAL NUMBER OF OBS: 387

PCT FREQ NH <5/8: 26.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	4.9	9.6	5.3	5.3	7.7	11.4	14.0	11.8	27.3	9.2	414

NOVEMBER

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1913-1974

AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.4	.0	.0	.2	.1	1.7	.3	.0	.0	3.0	
	NO PCP	.3	.1	.4	.2	.6	.5	.0	.3	.0	.2	2.3	
	TOT %	.5	.5	.4	.2	.8	.5	1.7	.6	.0	.2	5.3	
1/2<1	PCP	.2	.1	.2	.2	.3	.5	1.4	.2	.0	.0	2.8	
	NO PCP	.2	.0	.0	.0	.3	.2	.2	.0	.0	.0	.8	
	TOT %	.4	.1	.2	.2	.5	.5	1.5	.2	.0	.0	3.6	
1<2	PCP	.2	.0	.1	.3	.8	.2	.6	.7	.0	.0	3.0	
	NO PCP	.0	.0	.4	.0	.2	.3	.2	1.1	.0	.0	2.1	
	TOT %	.2	.0	.5	.3	1.0	.5	.8	1.8	.0	.0	5.1	
2<5	PCP	.2	.3	.4	.6	.0	.0	.7	.7	.0	.0	3.0	
	NO PCP	.5	.0	.4	1.1	.2	.7	3.4	3.5	.0	.0	10.0	
	TOT %	.7	.3	.8	1.7	.2	.7	4.2	4.3	.0	.0	12.9	
5<10	PCP	.0	.4	.2	.2	.3	.0	.6	.0	.0	.0	1.7	
	NO PCP	2.4	.9	1.2	1.5	1.7	4.2	7.7	6.5	.0	.2	26.3	
	TOT %	2.4	1.3	1.4	1.6	2.0	4.2	8.4	6.5	.0	.2	28.0	
10+	PCP	.2	.1	.0	.0	.2	.0	.4	.2	.0	.0	1.1	
	NO PCP	3.2	1.0	1.4	1.5	4.3	7.0	12.7	10.9	.0	1.9	43.9	
	TOT %	3.3	1.1	1.4	1.5	4.5	7.0	13.1	11.1	.0	1.9	44.9	
TOT OBS													472
TOT PCT		7.6	3.2	4.7	5.6	9.1	13.4	29.8	24.5	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.5	.1	.0	.0	.3	.0	.0	.0	.0		.8	
	11-21	.0	.0	.0	.0	.2	.1	.3	.0	.0		.6	
	22+	.2	.3	.3	.1	.1	.0	1.0	.5	.0		2.5	
	TOT %	.7	.3	.3	.1	.6	.1	1.2	.5	.0	.3	4.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.1	.2	.0	.3	.3	.0	.0	.0		.8	
	22+	.0	.0	.0	.1	.1	.1	1.6	.3	.0		2.2	
	TOT %	.3	.1	.2	.1	.4	.3	1.6	.3	.0	.0	3.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.3	.0	.0	.0	.0		.3	
	11-21	.0	.0	.1	.1	.5	.3	.3	.6	.0		1.9	
	22+	.6	.0	.0	.0	.0	.3	.8	.9	.0		2.5	
	TOT %	.6	.0	.1	.1	.8	.6	1.0	1.5	.0	.0	4.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.6	.3	.0	.1	.2	.0	.0		1.1	
	11-21	.6	.1	.2	.6	.0	.0	2.2	2.8	.0		6.4	
	22+	.4	.0	.3	.3	.3	.6	2.1	2.2	.0		6.1	
	TOT %	1.0	.1	1.0	1.1	.3	.6	4.5	5.0	.0	.0	13.6	
5<10	0-3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	.6	
	4-10	1.0	.6	.2	.1	1.0	.6	1.3	1.6	.0		6.4	
	11-21	.5	.3	1.0	1.2	1.0	3.1	3.5	2.6	.0		13.3	
	22+	.4	.8	.0	.1	.2	.8	3.4	2.0	.0		7.8	
	TOT %	2.1	1.7	1.2	1.3	2.3	4.6	8.2	6.2	.0	.3	28.0	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.6	.0	1.4	1.9	
	4-10	2.1	.8	.8	1.2	1.2	2.6	2.6	.7	.0		11.9	
	11-21	1.7	.3	.3	.4	3.9	3.1	7.3	5.7	.0		22.7	
	22+	.0	.3	.3	.0	.8	1.0	3.7	3.7	.0		9.7	
	TOT %	3.7	1.4	1.3	1.7	5.9	6.7	13.5	10.7	.0	1.4	46.3	
TOT OBS													361
TOT PCT		8.4	3.6	4.2	4.5	10.2	13.0	30.1	24.0	.0	1.9	100.0	

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1919-1974

NOVEMBER

AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	9.7	.0	4.0	4.8	23.4	21.8	8.1	1.6	.0	1.6	79.0	25.0	124
06009	6.9	.0	6.0	10.3	19.0	25.9	8.6	.0	.0	1.7	78.4	21.6	116
12015	13.6	.0	2.5	7.4	13.6	22.2	2.5	1.2	1.2	3.7	67.9	32.1	81
18021	15.4	.0	2.6	2.6	26.9	15.4	1.3	.0	.0	1.3	65.4	34.6	78
TOT	43	0	16	26	83	87	23	3	1	8	290	109	399
PCT	10.8	.0	4.0	6.5	20.8	21.8	5.8	.8	.3	2.0	72.7	27.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	6.3	3.5	4.9	9.8	26.6	49.0	143
06009	5.0	3.5	5.7	17.0	31.2	37.6	141
12015	6.6	2.8	7.5	10.4	22.6	50.0	106
18021	3.8	5.7	3.8	15.2	28.6	42.9	105
TOT	27	19	27	65	136	221	495
PCT	5.5	3.8	5.9	13.1	27.5	44.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	9.8	17.2	31.1	46.7	22.1	122
06009	7.0	14.0	39.5	43.0	17.5	114
12015	13.2	19.7	32.9	38.2	28.9	76
18021	16.0	20.0	33.3	34.7	32.0	75
TOT	42	67	133	161	93	387
PCT	10.9	17.3	34.4	41.6	24.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	.0	.0	.6	1	.6
50/54	.0	.0	.0	.6	.0	1.3	1.3	.0	5	3.2
45/49	.0	.0	.0	.6	1.9	5.8	7.1	5.8	33	21.4
40/44	.0	.0	.0	.6	3.2	10.4	6.5	4.5	39	25.3
35/39	.0	.0	.0	1.3	8.4	7.8	10.4	4.5	50	32.5
30/34	.0	.0	.0	.0	.0	2.6	7.8	3.2	21	13.6
25/29	.0	.0	.0	.0	.0	2.6	.6	.0	5	3.2
TOTAL	0	0	0	9	21	43	55	30	154	100.0
PCT	.0	.0	.0	3.2	13.6	27.9	35.7	19.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.2	1.8	.6	.0	.6	.0	.0
.9	1.3	2.4	3.7	4.7	2.3	2.4	4.1	.0	.0
2.3	.0	4.4	.8	1.6	3.7	7.6	3.6	.0	1.3
1.6	.6	.0	.0	3.4	1.1	14.4	11.2	.0	.0
1.0	.2	.5	.0	.0	.6	3.7	7.6	.0	.0
.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0
5.4	2.1	8.0	4.7	11.5	8.4	28.2	30.4	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	53	52	48	38	28	25	21	38.2	138
06009	56	55	48	37	28	25	25	38.0	142
12015	54	48	46	36	27	21	21	36.6	107
18021	54	52	48	37	28	21	21	37.2	106
TOT	56	52	48	37	28	23	21	37.6	493

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.6	16.7	38.9	16.7	22.2	79	36		
06009	.0	2.1	6.3	20.8	32.1	18.8	83	48		
12015	.0	5.3	21.1	23.7	42.1	7.9	78	38		
18021	.0	.0	12.5	31.3	25.0	31.3	82	22		
TOT	0	5	21	43	55	30	81	154		

NOVEMBER

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1913-1974

TABLE 17

AREA 0026 URUP ISLAND
46.2N 151.2EPCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.0	.2	.0	.7	.0	.0	4	.0	.9
6	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
5	.0	.0	.0	.0	.0	.7	1.6	.7	.0	13	.0	2.9
4	.0	.0	.0	.0	.2	.4	1.6	.2	.4	13	.2	2.7
3	.0	.0	.0	.0	.0	1.8	1.6	.2	.0	16	.4	3.1
2	.0	.0	.0	.2	1.3	1.8	.7	.2	.0	19	.2	4.0
1	.0	.0	.0	.2	1.8	.7	.9	.4	.0	18	.7	3.3
0	.0	.0	.4	.9	2.9	3.8	1.6	.2	.2	45	.4	9.6
-1	.0	.0	.2	1.1	2.4	2.0	.4	.0	.0	28	.0	6.2
-2	.0	.0	.0	2.0	4.5	1.8	.4	.0	.0	39	.0	8.7
-3	.0	.0	.2	2.7	2.0	1.1	.2	.0	.0	28	.0	6.2
-4	.0	.2	.4	3.1	3.1	1.1	.2	.0	.0	37	.0	8.2
-5	.0	.0	1.6	5.1	3.6	1.6	.2	.0	.0	54	.4	11.6
-6	.0	.0	.9	1.6	.9	.4	.0	.0	.0	17	.0	3.8
-7/-8	.0	.7	2.0	2.4	1.8	.4	.0	.0	.0	33	.0	7.3
-9/-10	.0	.9	2.7	2.9	.9	.2	.0	.0	.0	34	.7	6.9
-11/-13	.0	3.3	2.7	.7	.2	.0	.0	.0	.0	31	.0	6.9
-16/-16	.0	1.6	.2	.4	.0	.0	.0	.0	.0	10	.0	2.2
-17/-19	.2	.4	.0	.0	.2	.0	.0	.0	.0	4	.0	.9
-20/-22	.9	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.9
-23/-23	.0	.2	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	5	33	51	105	117	80	45	9	4	449	14	435
PCT	1.1	7.3	11.4	23.4	26.1	17.8	10.0	2.0	.9	100.0	3.1	96.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.8	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.5	.0	.0	.0	.0	2.5	.0	.6	.4	.0	.0	.0	1.0
3-4	.0	.3	7.1	.4	.0	.0	2.9	.0	.1	.2	.0	.0	.0	.3
5-6	.0	.7	.4	.0	.3	.0	1.4	.0	.0	.4	.9	.0	.0	1.3
7	.0	.4	.4	.0	.0	.0	.9	.0	.0	.0	.0	.4	.0	.4
8-9	.0	.0	.3	.3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.8	3.3	.8	.7	.0	10.0	.0	.7	1.1	1.3	.4	.0	3.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.1	.0	.0	.0	1.1
3-4	.0	.4	.7	.0	.0	.0	1.1	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.1	.0	.0	1.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	1.5	.4	.0	.0	3.7	.0	1.5	1.8	.1	.0	.0	3.4

PERIOD: (OVER-ALL) 1963-1974

NOVEMBER

AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-2	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.3	.4	.0	.0	.0	.8	.0	.6	.0	.0	.0	.0	.0	.6
1-2	.0	1.2	.8	.0	.0	.0	2.0	.0	1.0	2.3	.0	.0	.0	.0	3.3
3-4	.0	1.7	2.7	.3	.0	.0	4.6	.0	1.0	1.7	.1	.0	.0	.0	2.8
5-6	.0	.0	1.4	.9	.0	.0	2.3	.0	.4	.6	.4	.4	.0	.0	1.9
7	.0	.0	.4	.4	.0	.0	.9	.0	.0	.9	.2	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4
13-16	.0	.0	.4	.3	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	.9
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	6.2	2.0	.0	.0	11.4	.0	3.0	6.7	1.2	1.3	.1	12.4	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1-2	.0	1.5	2.9	.0	.0	.0	4.4	.0	.6	.6	.0	.0	.0	.0	1.1	
3-4	.0	1.8	1.2	.9	.0	.0	3.9	.0	1.3	2.0	.4	.0	.0	.0	3.8	
5-6	.0	.0	5.4	1.1	.4	.0	7.0	.4	.2	2.1	.7	.1	.0	.0	3.5	
7	.0	.9	1.3	2.7	.3	.0	5.2	.0	.4	1.3	.2	.1	.0	.0	2.1	
8-9	.0	.0	2.0	1.8	.4	.0	4.2	.0	.0	3.9	1.9	.4	.0	.0	6.2	
10-11	.0	.0	.4	.0	.0	.3	.8	.0	.0	.9	1.3	1.3	.4	.0	4.0	
12	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.6	
13-16	.0	.0	.0	2.0	.4	.0	2.4	.0	.0	.0	.2	.4	.0	.0	.7	
17-19	.0	.0	.0	.9	.4	.0	1.3	.0	.0	.0	.4	.0	.0	.0	.4	
20-22	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.2	14.3	9.3	3.3	.7	30.8	.4	2.7	10.7	5.2	3.1	.6	22.7	97.8	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.7	3.5	.4	.0	.0	.0	6.6	
1-2	.0	8.4	7.1	.0	.0	.0	15.5	
3-4	.0	6.6	10.6	7.2	.0	.0	19.5	
5-6	.4	1.3	11.5	4.0	1.3	.0	18.6	
7	.0	1.8	4.9	3.5	.9	.0	11.1	
8-9	.0	.0	6.6	4.0	1.3	.0	11.9	
10-11	.0	.0	1.3	2.2	1.8	.9	6.2	
12	.0	.0	.4	.0	1.8	.0	2.2	
13-16	.0	.0	1.3	2.7	.9	.0	4.9	
17-19	.0	.0	.4	1.8	.4	.0	2.7	
20-22	.0	.0	.0	.0	.4	.0	.4	
23-25	.0	.0	.0	.0	.0	.4	.4	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.1	21.7	44.7	20.4	8.8	1.3	100.0	226

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	2.9	6.8	6.6	3.7	1.8	.3	.5	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	90	5
6-7	.0	.8	1.0	5.8	4.5	7.3	3.7	.5	1.6	.3	.3	.0	.5	.0	.0	.0	.0	.0	.0	100	8
8-9	.0	.0	2.6	1.3	2.6	4.2	2.1	1.0	1.6	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	62	8
10-11	.0	.3	.5	1.0	1.8	1.3	1.0	.5	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	9
12-13	.0	.0	.5	.5	.5	.3	.8	.3	.3	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	18	11
>13	.0	.0	.0	.3	.3	.3	.3	.3	.3	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	9	13
INDET	2.4	.5	5.0	2.4	2.9	1.3	1.0	.5	1.3	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	70	6
TOTAL	11	17	63	88	82	63	35	14	23	12	10	1	2	0	0	0	0	0	0	381	7
PCT	2.9	4.5	16.5	17.8	16.3	16.5	9.2	3.7	6.0	3.1	2.6	.3	.5	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1939-1973AREA 0026 URUP ISLAND
46.2N 151.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	5.7	.0	.0	.0	12.1	.0	3.4	15.5	5.7	.0	.0	.0	.0	.0	78.7
NE	.0	.0	.63	.0	15.6	.0	.0	21.9	3.1	.0	12.5	.0	.0	.0	62.5
E	5.3	.0	3.9	.0	38.2	.0	.0	47.4	9.2	.0	.0	.0	.0	5.3	38.2
SE	12.7	.0	5.6	.0	23.0	.0	.0	41.3	.0	.0	.0	.0	.0	.0	58.7
S	3.8	.0	5.7	.0	.0	.0	.0	9.5	2.9	.0	3.8	.0	.0	.0	83.8
SW	1.9	.0	3.8	.0	11.0	.0	.5	17.2	6.7	.0	1.9	.0	.0	.0	74.2
W	1.5	.0	.8	.0	15.2	.0	.6	17.3	13.8	.0	.0	.6	.0	.0	68.3
NW	2.7	.0	1.1	.0	24.1	.0	1.6	27.8	6.5	.0	.0	.3	.0	.0	65.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	50.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	50.0
TOT PCT	3.4	.0	2.2	.0	17.2	.0	1.0	22.5	8.0	.0	1.0	.2	.0	.2	68.0
TOT OBS:	413														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	5.3	.0	3.1	.0	16.0	.0	3.1	24.4	7.6	.0	.0	.0	.0	.0	67.2
06009	2.7	.0	.9	.0	17.1	.0	.0	19.8	9.9	.0	.9	.0	.0	.9	68.5
12015	2.1	.0	2.1	.0	17.9	.0	.0	22.1	7.4	.0	2.1	.0	.0	.0	68.4
18021	2.2	.0	2.2	.0	19.6	.0	.0	23.9	6.5	.0	1.1	.0	.0	.0	68.5
TOT PCT 429	3.3	.0	2.1	.0	17.5	.0	.9	22.6	7.9	.0	.9	.2	.0	.2	68.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	3.4	6.7	2.3	.3	.0		13.1	15.2	19.0	2.4	13.0	5.9	20.7	5.0	5.2	12.5	
NE	1.0	1.8	1.4	.1	.0	.0		4.3	9.2	.4	10.7	1.9	5.9	3.9	15.0	6.1	7.1	
E	.0	.3	1.4	1.9	.3	.0		4.0	22.4	1.2	6.0	5.8	8.8	3.1	5.0	5.2	.0	
SE	.0	1.9	1.5	3.2	.8	.0		7.4	21.7	4.4	26.2	3.8	8.8	5.5	.0	10.4	7.1	
S	.0	2.3	2.3	.9	.3	.0		6.0	15.2	5.2	3.6	2.9	5.9	7.8	10.0	9.9	.0	
SW	.0	1.7	8.8	2.0	.8	.0		13.3	17.7	14.3	8.3	12.0	14.7	10.9	.0	18.9	17.9	
W	.0	3.3	13.2	11.7	2.8	.0		31.2	21.1	30.6	25.0	44.7	14.7	30.9	40.0	25.9	28.6	
NW	.0	4.7	9.0	6.1	.9	.0		20.7	17.9	25.0	17.9	15.9	35.3	17.2	25.0	18.4	26.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	4	58	131	83	18	0	294		18.4		63	21	52	17	64	10	53	14
TOT PCT	1.4	19.7	44.6	28.2	6.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	1.0	7.9	3.5	.7	.0		13.1	15.2	14.9	11.2	18.6	6.7	
NE	1.4	2.4	.6	.0	.0		4.3	9.2	3.0	2.9	5.4	6.3	
E	.0	1.8	.9	.9	.3		4.0	22.4	2.4	6.5	3.4	4.1	
SE	.0	3.1	1.4	2.9	.0		7.4	21.7	9.8	5.1	4.7	9.7	
S	.6	3.3	1.1	.9	.0		6.0	15.2	4.8	3.6	1.1	7.8	
SW	.2	8.2	3.4	1.5	.0		13.3	17.7	12.8	12.7	5.5	18.7	
W	1.3	8.5	14.5	6.7	.3		31.2	21.1	29.2	17.3	32.1	26.5	
NW	1.0	8.2	7.9	3.4	.1		20.7	17.9	23.2	20.7	18.2	20.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
TOT OBS	16	128	98	50	2	294		18.4	64	69	74	67	
TOT PCT	5.4	43.5	33.3	17.0	.7		100.0		100.0	100.0	100.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1933-1973

AREA 0026 URUP ISLAND
46.2N 151.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	.0	2.4	20.2	34.5	33.3	9.5	.0	18.7	100.0	84
0600	.0	.0	15.9	49.3	27.5	7.2	.0	19.7	100.0	69
1200	.0	.0	23.0	52.7	21.6	2.7	.0	16.8	100.0	74
1800	.0	3.0	19.4	43.3	29.9	4.5	.0	18.6	100.0	67
TOT	0	4	56	131	83	16	0	18.4		294
PCT	.0	1.4	19.7	44.6	28.2	6.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	1.5	.9	3.5	4.6		6.0
NE	.0	.0	.4	2.1		7.6
E	.0	.0	.9	3.5		7.6
SE	.4	.3	1.9	5.5		7.2
S	.2	.3	1.7	4.1		7.1
SW	2.0	1.0	3.7	4.9		5.7
W	2.4	6.9	13.8	10.2		9.8
NW	1.1	2.9	11.3	7.5		6.1
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.3	.3		7.5
TOT OBS	24	39	119	134	316	6.2
TOT PCT	7.6	12.3	37.7	42.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NM >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	1.7	2.6	2.4	1.1	.0	.0	.3	2.4	
NE	.4	.0	.0	.1	.7	1.0	.0	.3	.0	.0	.0	
E	1.1	.0	.0	.3	1.1	1.5	.2	.0	.0	.0	.0	
SE	.9	.0	.6	.3	1.1	3.2	.1	.3	.0	.0	1.3	
S	.8	.0	.0	.6	1.4	1.7	.3	.0	.3	.0	1.2	
SW	.8	.1	1.3	1.2	1.0	2.8	.6	.0	.1	.0	3.7	
W	2.7	.9	1.5	4.0	6.5	5.7	.3	.3	.6	.0	10.9	
NW	3.2	.0	.6	2.9	2.9	5.1	.5	.0	.0	.0	7.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	
TOT OBS	31	3	13	35	54	75	10	3	3	1	86	316
TOT PCT	9.8	.9	4.1	11.1	17.7	23.7	3.2	.9	.9	.3	27.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.9	1.2	1.6	1.6	1.6	1.6	1.6	1.6
>5000	1.2	1.9	2.5	2.5	2.5	2.5	2.5	2.5
>3500	2.8	3.3	6.2	6.2	6.2	6.2	6.2	6.2
>2000	15.6	22.4	26.2	27.7	29.3	29.6	29.9	29.9
>1000	23.4	34.3	41.1	43.0	46.7	47.4	48.0	48.0
>600	25.9	40.2	49.5	53.0	57.3	58.3	58.9	58.9
>300	26.5	42.7	52.3	56.4	61.1	62.3	62.9	62.9
>150	26.5	43.3	53.3	57.3	62.0	63.2	63.9	63.9
>0	27.4	44.9	57.0	63.2	68.8	71.7	72.9	72.9
TOTAL	88	144	183	203	221	230	234	234

TOTAL NUMBER OF OBS: 321

PCT FREQ NM <5/8: 27.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.8	1.1	4.8	7.7	10.0	9.1	12.8	13.7	29.6	351

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1933-1973

DECEMBER

AREA 0026 URUP ISLAND
46.2N 151.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.1	.6	.5	.0	.0	.4	1.0	.0	.2	3.2	
	NO PCP	.0	.2	.0	.2	.2	.2	.2	.0	.0	.0	1.2	
	TOT %	.2	.3	.6	.8	.2	.2	.7	1.0	.0	.2	4.4	
1/2<1	PCP	.2	.3	.6	.8	.0	.0	1.2	.8	.0	.0	3.9	
	NO PCP	.5	.0	.0	.0	.0	.2	.2	.0	.0	.0	1.0	
	TOT %	.7	.3	.6	.8	.0	.2	1.5	.8	.0	.0	4.9	
1<2	PCP	.2	.2	.6	.7	.2	.5	.9	1.6	.0	.0	4.9	
	NO PCP	.0	.1	.4	.0	.2	.4	.8	.3	.0	.0	2.2	
	TOT %	.2	.3	1.0	.7	.4	.9	1.8	1.9	.0	.0	7.0	
2<5	PCP	.9	.2	.4	1.1	.2	.8	1.3	1.5	.0	.0	6.1	
	NO PCP	.2	.5	.5	.3	.5	1.0	3.9	1.3	.0	.0	8.3	
	TOT %	.7	.7	.8	1.3	.7	1.9	5.3	2.8	.0	.0	14.3	
5<10	PCP	.9	.0	.0	.1	.2	.3	.9	.9	.0	.0	2.9	
	NO PCP	3.6	.8	.2	.5	1.0	1.9	7.4	7.7	.0	.0	23.3	
	TOT %	4.2	.8	.2	.6	1.2	2.2	8.3	8.6	.0	.0	26.2	
10+	PCP	.0	.0	.0	.0	.0	.5	.7	.5	.0	.0	1.7	
	NO PCP	4.6	1.5	1.3	3.5	3.8	6.4	13.4	6.9	.0	.2	41.5	
	TOT %	4.6	1.5	1.3	3.5	3.8	7.0	14.1	7.3	.0	.2	43.2	
TOT OBS													412
TOT PCT		10.6	3.9	4.6	7.6	6.4	12.4	31.6	22.5	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.7	.0	.3	.0	.0	.0	.0	1.0	
	22+	.3	.0	.3	.3	.0	.3	.6	.1	.0	.0	2.1	
	TOT %	.3	.3	.3	1.0	.0	.7	.6	.1	.0	.0	3.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.1	.3	.0	.0	.4	.6	.7	.0	.0	2.1	
	22+	.3	.0	.3	.7	.0	.0	.7	.0	.0	.0	2.1	
	TOT %	.3	.1	.6	.7	.0	.4	1.3	.7	.0	.0	4.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.2	.2	.3	.8	.3	.7	.0	.0	2.4	
	22+	.3	.0	.7	.8	.3	.1	1.5	.9	.0	.0	4.5	
	TOT %	.3	.3	.9	.9	.5	.9	1.8	1.6	.0	.0	7.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.7	.3	.3	.0	.0	.5	.3	.3	.0	.0	2.4	
	11-21	.0	.5	.7	.5	.0	.7	.7	2.1	.0	.0	5.2	
	22+	.3	.0	.3	1.0	.3	1.1	3.6	1.5	.0	.0	8.2	
	TOT %	1.0	.9	1.4	1.5	.3	2.0	4.8	3.9	.0	.0	15.8	
5<10	0-3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	1.0	.0	.0	.3	.9	.5	1.3	2.1	.0	.0	6.2	
	11-21	3.0	.7	.0	.1	.3	1.3	4.5	2.9	.0	.0	12.7	
	22+	1.0	.0	.0	.1	.5	.5	2.5	2.6	.0	.0	7.2	
	TOT %	5.4	.7	.0	.5	1.7	2.3	8.2	7.6	.0	.0	26.5	
10+	0-3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	4-10	1.7	1.1	.0	1.5	1.5	1.0	1.7	2.3	.0	.0	11.0	
	11-21	3.8	.2	.3	.1	2.0	5.3	7.2	2.7	.0	.0	21.6	
	22+	.3	.1	.5	.8	.0	.8	3.2	2.0	.0	.0	9.6	
	TOT %	5.8	2.1	.9	2.4	3.5	7.1	14.1	7.0	.0	.0	49.0	
TOT OBS													291
TOT PCT		13.2	4.4	4.0	7.1	6.1	13.4	30.8	20.9	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1933-1973AREA 0026 URUP ISLAND
46.2N 151.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	180 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL DBS
00003	6.7	.0	2.9	13.5	13.4	28.8	2.9	1.0	1.9	.0	73.1	26.9	104
06009	4.5	3.4	5.7	10.2	22.7	26.1	3.4	.0	1.1	1.1	78.4	21.6	88
12015	13.3	.0	5.3	10.7	18.7	13.3	4.0	1.3	1.3	.0	68.0	32.0	75
18021	15.6	.0	1.6	6.3	14.1	21.9	4.7	1.6	.0	.0	65.6	34.4	64
TOT	31	3	13	35	59	77	12	3	4	1	238	93	331
PCT	9.4	.9	3.9	10.6	17.8	23.3	3.6	.9	1.2	.3	71.9	28.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	6.8	3.8	6.8	15.9	19.7	47.0	132
06009	2.7	6.2	8.0	15.0	26.5	41.6	113
12015	4.0	7.1	3.0	16.2	30.3	39.4	99
18021	3.3	3.3	9.9	12.1	27.5	44.0	91
TOT	19	22	30	65	111	188	435
PCT	4.4	5.1	6.8	14.9	25.3	43.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<180 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
00003	6.9	16.8	40.6	35.6	23.8	101
06009	3.4	17.2	36.8	42.5	20.7	87
12015	14.1	28.2	45.1	25.4	29.6	71
18021	14.5	19.4	38.7	30.6	30.6	62
TOT	29	64	129	110	82	321
PCT	9.0	19.9	40.2	34.3	25.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
40/44	.0	.0	.0	.0	1.4	.7	2.8	.0	7	4.9
39/39	.0	.0	.0	1.4	2.1	6.3	8.5	16.2	49	34.5
30/34	.0	.0	.0	.7	3.6	4.2	11.3	9.2	44	31.0
25/29	.0	.0	.0	.0	7.8	1.4	7.0	7.0	26	18.3
20/24	.0	.0	.0	.0	.0	.7	1.4	5.6	11	7.7
15/19	.0	.0	.0	.0	.0	.0	.0	3.5	5	3.5
TOTAL	0	0	0	3	17	19	44	59	142	100.0
PCT	.0	.0	.0	2.1	12.0	13.4	31.0	41.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
40/44	.0	.0	.0	1.6	1.2	.7	1.4	.0	.0	.0
39/39	1.9	.2	1.1	4.4	2.1	4.2	15.1	5.5	.0	.0
30/34	1.8	.0	.0	1.4	1.8	4.8	15.1	6.2	.0	.0
25/29	2.8	.9	.0	.0	.0	.7	8.6	5.3	.0	.0
20/24	.0	.0	.0	.0	.0	.0	5.3	2.5	.0	.0
15/19	.0	.0	.0	.0	.0	.0	2.6	.9	.0	.0
TOTAL	6.5	1.1	1.1	7.4	5.1	10.4	48.2	20.2	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	43	42	40	34	29	21	20	32.6	127
06009	46	45	38	32	22	18	18	31.6	113
12015	43	42	38	32	21	16	16	31.2	98
18021	42	41	40	32	29	17	17	31.2	88
TOT	46	43	39	32	23	18	16	31.7	426

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	.0	13.2	13.2	26.3	47.4	86	38		
06009	.0	.0	9.3	11.6	30.2	48.8	88	43		
12015	.0	6.7	13.3	6.7	40.0	33.3	83	30		
18021	.0	3.2	12.9	22.6	29.0	32.3	82	31		
TOT	0	3	17	19	44	59	85	142		

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1933-1973

TABLE 17

AREA 0026 URUP ISLAND
46.2N 151.1E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP CIP	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	WD FOG
7/8	.0	.0	.0	.0	.0	.0	.5	.0	.0	2	.0	.5
6	.0	.0	.0	.0	.0	.0	.0	.3	.0	1	.0	.3
5	.0	.0	.0	.0	.0	.3	.5	.3	.3	5	.0	1.3
4	.0	.0	.0	.0	.5	.0	.3	.0	.0	3	.0	.8
3	.0	.0	.0	.0	.0	.0	.3	.3	.0	2	.0	.5
2	.0	.0	.0	.0	.0	.3	1.5	.8	.3	11	.3	2.6
1	.0	.0	.0	.0	.0	.5	1.8	.3	.0	10	.0	2.6
0	.0	.0	.0	.0	.3	1.8	3.6	.5	.0	24	.0	6.2
-1	.0	.0	.0	.0	.0	3.6	1.5	.0	.0	20	.0	5.2
-2	.0	.0	.0	.0	1.5	3.6	2.8	.0	.0	31	.0	8.0
-3	.0	.0	.0	.0	.5	3.4	.5	.0	.0	17	.0	4.4
-4	.0	.0	.0	.3	4.9	3.4	.5	.5	.0	37	.3	9.0
-5	.0	.0	.3	1.3	4.1	5.9	1.5	.0	.0	51	.0	13.1
-6	.0	.0	.0	.8	2.8	.8	.5	.0	.0	19	.0	4.9
-7/-8	.0	.0	.3	2.8	3.1	2.1	.0	.0	.0	32	.0	8.2
-9/-10	.0	.0	.3	4.1	3.6	.5	.5	.0	.0	35	.0	9.0
-11/-13	.0	.0	3.4	5.7	2.1	1.5	.0	.0	.0	49	.3	12.4
-14/-16	.0	1.3	2.3	2.6	.3	.0	.0	.0	.0	25	.0	6.4
-17/-19	.0	.8	.8	.5	.0	.0	.0	.0	.0	8	.0	2.1
-20/-22	.0	.3	.5	.3	.0	.0	.0	.0	.0	4	.0	1.0
-23/-25	.0	.0	.3	.0	.0	.0	.0	.0	.0	2	.0	.5
TOTAL	1	9	31	71	92	107	64	11	2	388	4	384
PCT	.3	2.3	8.0	18.3	23.7	27.6	16.5	2.8	.5	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.6	1.2	.0	.0	.0	.0	1.8	.6	.6	.0	.0	.0	.0	1.2
1-2	.0	.0	1.5	.0	.0	.0	1.5	.0	.6	.3	.0	.0	.0	.9
3-4	.0	.5	1.1	.6	.0	.0	2.1	.0	.2	.6	.0	.0	.0	.8
5-6	.0	.0	3.2	1.2	.0	.0	4.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.6	2.3	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.7	7.6	4.1	.0	.0	14.0	.6	1.4	.9	.2	.0	.0	3.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.6	.0	.0	1.2
7	.0	.6	.0	.6	.0	.0	1.2	.0	.0	.0	.6	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.2	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.9	.6	.0	1.5	.0	.0	.0	.2	.6	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.6
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	.6	1.5	.6	.0	3.4	.0	1.4	.0	4.0	1.4	.0	6.7

PERIOD: (OVER-ALL) 1963-1973

DECEMBER

AREA 0026 URUP ISLAND
46.2N 151.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	.2	.8	.0	.0	.0	.9
3-4	.0	.6	1.8	.0	.0	.0	2.4	.0	.6	.8	.2	.0	.0	1.5
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.6	4.4	.0	.0	.0	5.0
7	.0	.0	.6	.6	.0	.0	1.2	.0	.2	1.8	.8	.0	.0	2.7
8-9	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.8	.0	.0	.8
10-11	.0	.0	.0	.0	.5	.0	.5	.0	.0	.8	.0	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	2.9	1.5	.5	.0	6.6	.0	1.5	8.5	2.3	.2	.0	12.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2	
1-2	.0	1.1	3.5	.0	.0	.0	4.6	.0	.0	1.8	.0	.0	.0	1.8	
3-4	.0	.0	3.2	.5	.0	.0	3.7	.0	.0	2.9	1.8	.0	.0	4.7	
5-6	.0	.6	1.1	1.7	.6	.0	4.0	.0	.0	3.7	1.4	.0	.0	5.0	
7	.0	.5	2.4	4.3	1.2	.0	8.4	.0	.0	.0	1.8	.0	.0	1.8	
8-9	.0	.0	.6	1.8	.0	.0	2.4	.0	.0	.6	.6	.0	.0	1.2	
10-11	.0	.0	.9	3.4	1.1	.0	5.3	.0	.0	.2	.3	.8	.0	1.2	
12	.0	.0	1.7	.6	.0	.0	2.3	.0	.6	.2	.6	.6	.0	2.0	
13-16	.0	.0	.0	1.2	.6	.0	1.8	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.6	1.1	.0	1.7	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.1	13.4	14.0	5.0	.0	34.6	.0	1.8	9.3	6.6	1.5	.0	19.2	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.2	3.7	.0	.0	.0	.0	4.9	
1-2	.0	3.0	7.9	.0	.0	.0	11.0	
3-4	.0	1.8	11.0	3.0	.0	.0	15.9	
5-6	.0	1.8	12.8	4.9	.6	.0	20.1	
7	.0	1.2	5.5	11.0	1.2	.0	18.9	
8-9	.0	.0	2.4	5.5	.0	.0	7.9	
10-11	.0	.0	1.8	4.3	2.4	.0	8.5	
12	.0	.6	1.8	1.2	.6	.0	4.3	
13-16	.0	.0	.0	2.4	1.8	.0	4.3	
17-19	.0	.0	.0	1.8	1.2	.0	3.0	
20-22	.0	.0	.0	.0	1.2	.0	1.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.2	12.2	43.3	34.1	9.1	.0	100.0	184

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	2.5	9.9	5.6	5.6	1.5	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	5
6-7	.0	.6	2.2	5.9	5.9	4.6	3.7	1.5	1.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	86	8
8-9	.0	.0	.6	1.5	2.5	4.0	3.7	2.2	2.2	.9	.3	.6	.0	.0	.0	.0	.0	.0	.0	60	10
10-11	.0	.0	.3	.6	.6	.3	.3	.6	.6	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	16	11
12-13	.0	.0	.3	.0	.0	.0	.6	.0	.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	8	13
>13	.0	.0	.0	.3	.0	.0	.6	.0	.9	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	14	15
INDET	.6	1.5	2.8	3.7	1.9	1.9	1.5	.9	.3	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	7
TOTAL	3	15	52	37	33	40	38	19	21	14	7	4	0	0	0	0	0	0	0	323	8
PCT	.9	4.6	16.1	17.6	16.4	12.4	11.8	5.9	6.5	4.3	2.2	1.2	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

ANNUAL

AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	3.2	.1	1.8	.0	9.2	.0	.4	14.2	3.5	.0	17.5	.7	.6	.1	63.4
NE	6.9	.5	3.7	.0	11.0	.0	.0	21.8	4.7	.0	21.1	1.1	.9	.3	49.9
E	11.1	.2	3.8	.2	11.7	.2	.0	26.5	3.5	.0	21.3	.9	.5	.6	46.8
SE	11.6	.5	4.2	.3	7.0	.0	.0	22.4	5.4	.0	24.3	.7	.2	.1	47.0
S	6.8	.1	3.7	*	3.8	.0	.0	13.7	5.1	.0	27.4	.6	.2	.4	52.7
SW	3.0	.2	1.7	*	4.7	.0	.2	9.4	3.5	.0	24.6	.3	.6	.3	61.3
W	1.6	.2	1.5	.0	9.2	.1	.2	12.5	4.6	*	16.1	.6	.4	.3	65.4
NW	2.1	.1	.7	.1	11.6	*	.1	14.6	4.9	.1	15.6	.4	.5	.2	63.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3	.0	.4	.0	8.4	.0	.0	11.0	2.3	.0	25.2	1.0	.2	.5	59.6
TOT PCT OBS:	5.0 11383	.2	2.3	.1	9.1	*	.2	16.4	4.5	*	21.1	.6	.5	.3	56.5

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	4.7	.2	2.4	.1	9.3	*	.3	16.5	4.6	*	21.4	.8	.5	.4	55.8
06009	4.0	.1	1.9	*	9.2	.0	.2	15.1	5.6	.0	20.9	.7	.8	.4	56.6
12015	5.7	.3	2.2	*	8.7	.0	.0	16.6	4.0	.0	21.4	.4	.3	.2	57.1
18021	5.6	.2	2.5	.1	9.4	.1	.0	17.7	3.8	.1	21.1	.6	.4	.1	56.3
TOT PCT	5.0	.2	2.3	.1	9.1	*	.2	16.4	4.6	*	21.2	.6	.5	.3	56.4
TOT OBS:	11767														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	3.4	4.3	2.3	.4	*		11.2	14.3	12.2	9.5	10.1	9.9	12.3	8.7	11.8	13.6	
NE	.8	3.3	2.6	1.2	.3	*		8.3	13.5	8.1	8.9	9.4	6.3	9.7	6.9	8.2	7.9	
E	.6	3.0	2.6	1.1	.2	*		7.7	15.1	7.9	7.0	8.7	8.8	8.6	5.4	7.9	6.8	
SE	1.0	4.0	3.0	1.1	.2	*		9.4	14.1	8.5	13.7	8.5	10.7	7.5	7.8	8.5	10.4	
S	.9	5.1	4.1	1.0	.1	*		11.2	13.4	11.5	11.7	11.2	9.6	10.8	13.1	11.4	10.4	
SW	1.0	5.4	5.3	1.3	.2	*		13.3	13.2	13.0	13.2	12.8	13.2	13.2	14.4	14.8	15.8	
W	.7	4.0	7.6	4.3	1.0	.1		17.7	15.5	18.3	15.4	18.6	18.2	17.4	21.2	15.5	15.9	
NW	.6	3.9	7.1	4.7	1.1	.1		17.5	15.8	17.2	16.0	16.7	16.4	16.3	18.6	17.7	16.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.8							3.8	.0	3.3	2.5	3.9	4.8	4.3	3.9	4.3	2.7	
TOT OBS							10509		14.4	1698	1201	1621	1102	1567	973	1304	1043	
TOT PCT	10.2	32.2	36.6	17.2	3.6	.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	2.1	4.6	3.1	1.3	.1	11.2	14.3	11.6	10.1	11.9	11.2		
NE	2.4	3.5	1.6	.7	.1	8.3	13.5	8.0	8.4	8.6	8.1		
E	2.1	3.2	1.7	.5	.1	7.7	15.1	7.4	8.1	7.6	7.5		
SE	2.9	4.0	1.7	.7	.1	9.4	14.1	10.3	9.3	8.2	9.7		
S	3.0	5.6	2.1	.5	*	11.2	13.4	11.3	10.8	11.4	11.4		
SW	3.3	6.6	2.6	.7	*	13.3	13.2	13.3	12.5	13.4	14.0		
W	2.3	6.6	6.1	2.2	.4	17.7	15.5	17.6	18.9	18.0	16.2		
NW	2.0	6.3	6.1	2.7	.4	17.5	15.8	17.5	17.6	16.9	17.9		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.8					3.8	.0	3.1	4.3	4.0	3.9		
TOT OBS						10509		14.4	2899	2723	2540	2347	
TOT PCT	23.8	40.5	25.1	9.4	1.3		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1970-1974

ANNUAL

AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.1	7.0	31.2	36.1	18.5	3.7	.4	14.6	100.0	2899
0600	4.3	5.3	30.0	36.8	19.3	4.0	.3	15.1	100.0	2723
1200	4.0	6.1	32.1	40.2	14.1	3.1	.4	13.9	100.0	2540
1800	3.9	7.0	35.9	33.4	16.2	3.3	.3	13.7	100.0	2347
TOT								14.4		10509
PCT	3.8	6.4	32.2	36.6	17.2	3.6	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	.7	3.3	5.2		6.4
NE	.5	.3	1.6	5.7		7.1
E	.3	.3	1.2	6.5		7.3
SE	.7	.3	1.1	6.6		7.0
S	1.3	.5	2.1	7.5		6.6
SW	2.9	1.3	3.1	5.9		5.6
W	3.0	2.4	7.0	6.0		5.6
NW	2.1	2.1	6.4	7.0		5.8
VAR	.0	.0	.0	.0		.0
CALM	.9	.3	.5	2.4		5.5
TOT OBS					7084	6.2
TOT PCT	12.6	8.2	26.3	52.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
1.6	.1	.4	.9	1.8	2.2	.7	.1	.1	.1	2.3	
1.9	*	.3	.8	1.5	1.8	.5	.1	.1	*	1.0	
2.5	.1	.4	.9	1.6	1.4	.3	*	.1	*	.9	
2.9	.1	.3	.6	1.5	1.3	.3	.1	.1	*	1.4	
4.2	.1	.2	.8	1.4	1.4	.4	.1	.1	.1	2.7	
3.0	*	.4	.6	1.4	2.1	.5	.1	.1	.1	4.8	
2.3	.7	.5	1.2	3.0	3.4	.8	.2	.2	.1	6.7	
2.1	.1	.4	1.5	3.7	3.3	.9	.2	*	.1	5.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.5	*	.1	.1	.3	.5	.2	*	.1	*	1.3	
22.1	.7	2.9	7.3	16.3	17.3	4.6	1.0	.8	.6	7084 100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.7	1.2	1.3	1.4	1.4	1.4	1.4	1.4
>5000	1.1	1.9	2.2	2.3	2.4	2.4	2.4	2.4
>3500	3.4	5.8	6.6	6.9	7.0	7.1	7.1	7.1
>2000	11.4	18.4	21.9	22.8	23.7	24.0	24.2	24.2
>1000	16.5	28.9	35.5	37.4	39.0	39.9	40.4	40.5
>600	18.5	33.3	41.4	44.0	46.0	47.0	47.7	47.7
>300	19.1	34.6	43.5	46.4	48.6	49.8	50.6	50.7
>150	19.2	34.9	44.0	46.9	49.2	50.4	51.3	51.3
>0	19.3	36.1	46.9	51.5	55.6	61.0	71.6	73.7

TOTAL NUMBER OF OBS: 7227

PCT FREQ NH <5/8: 26.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.2	3.4	5.6	4.7	5.2	6.2	8.8	9.1	29.0	20.7	7819

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

ANNUAL

AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	.5	.4	.4	.3	.2	.5	.8	.0	.1	3.7	
	NO PCP	1.0	1.4	1.5	2.3	3.6	3.0	1.3	1.0	.0	1.1	16.4	
	TOT %	1.4	1.9	2.0	2.8	3.8	3.3	1.8	1.8	.0	1.2	20.0	
1/2<1	PCP	.3	.3	.4	.4	.2	.1	.5	.6	.0	*	2.8	
	NO PCP	.2	.3	.2	.2	.3	.2	.2	.2	.0	.1	2.0	
	TOT %	.5	.6	.6	.6	.5	.3	.7	.8	.0	.1	4.8	
1<2	PCP	.3	.3	.3	.4	.3	.2	.4	.7	.0	*	2.9	
	NO PCP	.2	.2	.2	.2	.2	.2	.3	.4	.0	.1	2.2	
	TOT %	.5	.5	.6	.6	.5	.5	.7	1.1	.0	.1	5.2	
2<5	PCP	.4	.3	.5	.6	.4	.3	.8	1.0	.0	*	4.3	
	NO PCP	.7	.7	.6	.7	.7	1.0	1.4	1.4	.0	.2	7.4	
	TOT %	1.1	1.0	1.1	1.3	1.2	1.3	2.1	2.4	.0	.2	11.7	
5<10	PCP	.3	.2	.3	.2	.2	.2	.4	.4	.0	*	2.2	
	NO PCP	2.5	1.6	1.5	1.4	1.9	2.7	4.1	4.2	.0	.5	20.4	
	TOT %	2.8	1.8	1.8	1.6	2.1	2.8	4.5	4.7	.0	.5	22.6	
10+	PCP	.1	.1	.1	.1	.1	.1	.2	.1	.0	*	.8	
	NO PCP	4.1	2.2	1.8	2.4	3.1	5.3	7.8	6.7	.0	1.6	34.9	
	TOT %	4.1	2.3	1.9	2.5	3.2	5.4	7.9	6.8	.0	1.7	35.7	
TOT OBS		11231											
TOT PCT		10.4	8.2	7.9	9.3	11.4	13.5	17.8	17.6	.0	3.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.3	.4	.3	.4	.4	.4	.2	.2	.0	1.1	3.7	
	4-10	.6	1.0	.9	1.4	1.9	1.9	.7	.7	.0		9.0	
	11-21	.4	.4	.6	.8	1.2	.8	.5	.6	.0		5.2	
	22+	.3	.3	.3	.3	.2	.3	.3	.5	.0		2.3	
	TOT %	1.6	2.1	2.0	2.9	3.7	3.2	1.7	1.9	.0	1.1	20.2	
1/2<1	0-3	.1	*	*	*	.1	*	*	*	.0	.2	.4	
	4-10	.1	.2	.2	.2	.2	.1	.2	.1	.0		1.3	
	11-21	.2	.1	.2	.1	.2	.2	.3	.3	.0		1.6	
	22+	.2	.2	.2	.2	.1	*	.4	.4	.0		1.6	
	TOT %	.5	.5	.6	.6	.5	.4	.8	.8	.0	.2	4.9	
1<2	0-3	*	*	*	*	*	*	*	.1	.0	.2	.5	
	4-10	.1	.2	.2	.4	.3	.2	.2	.2	.0		1.7	
	11-21	.1	.2	.2	.2	.3	.3	.2	.4	.0		2.0	
	22+	.3	.1	.2	.2	.1	.1	.4	.5	.0		1.8	
	TOT %	.6	.6	.6	.8	.7	.5	.9	1.2	.0	.2	5.9	
2<5	0-3	*	.1	.1	.1	.1	.1	.1	.1	.0	.2	.8	
	4-10	.3	.4	.5	.4	.4	.5	.3	.3	.0		3.0	
	11-21	.4	.5	.4	.6	.5	.4	.8	1.2	.0		4.8	
	22+	.4	.2	.3	.4	.3	.3	1.0	1.1	.0		4.0	
	TOT %	1.2	1.1	1.2	1.4	1.3	1.4	2.1	2.6	.0	.2	12.6	
5<10	0-3	.1	*	.1	.1	.1	.1	.1	.1	.0	.5	1.3	
	4-10	.8	.6	.6	.5	.9	.9	.9	1.0	.0		6.2	
	11-21	1.2	.6	.6	.7	1.1	2.0	1.7	.0			8.6	
	22+	.8	.4	.3	.1	.2	.4	1.4	1.7	.0		5.5	
	TOT %	2.9	1.7	1.5	1.5	2.0	2.6	4.4	4.5	.0	.5	21.7	
10+	0-3	.2	.2	.1	.2	.2	.3	.3	.2	.0	1.5	3.2	
	4-10	1.5	.9	.8	1.2	1.4	1.8	1.8	1.6	.0		10.9	
	11-21	1.9	.8	.7	.7	1.3	2.5	3.9	3.0	.0		14.7	
	22+	.8	.3	.2	.2	.2	.6	1.8	1.7	.0		5.8	
	TOT %	4.4	2.2	1.8	2.2	3.1	5.1	7.8	6.5	.0	1.5	34.7	
TOT OBS		10165											
TOT PCT		11.2	8.2	7.7	9.3	11.3	13.2	17.8	17.5	.0	3.7	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

ANNUAL

AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	20.7	.7	3.0	7.6	17.4	17.5	5.9	1.2	1.3	.7	76.0	24.0	2278
06009	19.0	.9	3.5	7.4	17.2	19.8	5.0	.7	.5	.6	74.7	25.3	2118
12015	25.9	.4	2.5	7.1	12.8	13.8	3.6	.8	.7	.6	68.4	31.6	1682
18021	24.4	.4	2.3	5.9	16.1	15.2	3.1	1.0	.7	.6	69.6	30.4	1380
TOT PCT	22.1	.7	2.9	7.1	16.1	16.9	4.6	.9	.8	.6	72.7	27.3	7458 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	20.3	4.9	6.0	12.0	20.6	36.3	3533
06009	19.6	5.3	6.4	12.2	21.1	35.2	3306
12015	22.2	4.6	6.0	13.5	22.3	31.4	2981
18021	20.5	4.9	6.2	13.7	22.2	32.3	2709
TOT PCT	20.6	4.9	6.2	12.8	21.5	34.0	12529 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	21.2	29.7	46.5	32.2	21.3	2222
06009	19.1	27.8	45.1	32.2	22.7	2073
12015	26.5	34.0	50.1	22.7	27.3	1596
18021	24.9	31.5	48.1	25.8	26.1	1336
TOT PCT	22.5	30.5	47.2	28.9	23.9	7227 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
65/69	.0	.0	.0	.0	.0	.1	.1	.0	.1	.1
60/64	.0	.0	.0	.0	.1	.1	.5	.7	1.4	.7
55/59	.0	.0	.0	.0	.3	.6	1.9	2.9	5.8	.7
50/54	.0	.0	.0	.1	.6	1.2	3.9	7.1	12.8	.7
45/49	.0	.0	.0	.2	.7	1.8	3.7	8.2	14.6	.7
40/44	.0	.0	.0	.1	.7	2.3	3.5	6.5	13.2	.7
35/39	.0	.0	.1	.6	1.5	2.8	4.0	9.5	18.5	.7
30/34	.0	.0	.0	.2	1.7	2.2	4.8	8.3	17.2	.7
25/29	.0	.0	.0	.0	1.1	1.3	2.1	4.6	9.1	.7
20/24	.0	.0	.0	.1	.2	1.0	1.4	2.5	5.2	.7
15/19	.0	.0	.0	.0	.1	.3	.3	1.1	1.8	.7
10/14	.0	.0	.0	.0	.0	.0	.0	.1	.1	.7
TOTAL PCT	.0	.0	.2	1.4	6.9	13.8	26.1	51.5	2789	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.1	.2	.2	.3	.3	.2	.0	.0	.1
.3	.4	.7	1.0	1.1	1.0	.6	.4	.0	.2
.7	1.3	1.5	1.4	2.7	1.9	1.9	1.0	.0	.4
1.2	1.0	1.3	1.7	2.2	2.4	2.0	2.1	.0	.7
1.6	1.2	1.5	1.4	1.8	2.2	2.1	1.1	.0	.3
1.3	1.5	1.5	1.9	2.4	2.5	4.2	2.8	.0	.3
2.8	1.9	1.2	1.1	1.0	2.1	3.9	3.1	.0	.2
1.3	.7	.4	.4	.6	.4	2.3	2.8	.0	.0
.2	.2	.1	.1	.1	.1	2.1	2.4	.0	.0
.1	.0	.0	.0	.0	.0	.6	1.2	.0	.0
.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
9.9	8.4	8.5	9.2	12.1	12.9	19.9	17.0	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	52	49	40	30	26	3	41.7	3484
06009	72	54	48	39	31	27	0	41.2	3206
12015	73	50	46	38	30	25	5	39.3	2980
18021	75	51	46	38	30	25	3	40.0	2713
TOT	75	53	48	39	30	26	0	40.6	12443

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.9	7.4	15.8	23.2	31.7	88	853
06009	.0	2.0	6.7	14.4	27.2	49.7	88	798
12015	.0	2.0	7.9	11.0	26.7	52.4	89	617
18021	.0	.3	5.7	13.3	27.5	59.2	90	549
TOT	0	37	160	348	733	1339	89	2817

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

ANNUAL

AREA 0026 URUP ISLAND
46.2N 151.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 06	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FDG	NO FDG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	19	.1	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	38	.1	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	52	.2	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.3	.2	.1	.0	.0	.0	127	.3	.6
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.6	.6	.4	.2	.1	.0	.0	305	.9	1.4
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.8	.6	.4	.3	.1	.0	.0	.0	323	1.0	1.6
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.7	1.1	.8	.6	.3	.2	.0	.0	.0	488	1.5	2.4
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.3	.2	.1	.1	.0	.0	.0	.0	138	.4	.8
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.3	1.6	.9	.7	.4	.2	.0	.0	.0	702	2.2	3.6
4	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.6	1.3	1.6	1.1	.7	.3	.1	.0	.0	.0	877	2.9	4.3
3	.0	.0	.0	.0	.0	.0	.0	.0	.4	.6	.7	.6	.4	.3	.1	.0	.0	.0	.0	345	.9	2.2
2	.0	.0	.0	.0	.0	.0	.0	.1	1.5	2.1	1.5	2.0	1.0	.6	.3	.0	.0	.0	.0	1104	3.4	5.9
1	.0	.0	.0	.0	.0	.0	.0	.1	.9	.8	.5	.6	.5	.3	.0	.0	.0	.0	.0	415	.9	2.9
0	.0	.0	.0	.0	.0	.0	.1	1.0	2.5	1.9	1.3	1.5	1.1	.5	.2	.0	.0	.0	.0	1110	2.6	7.5
-1	.0	.0	.0	.0	.0	.0	.0	.7	1.2	.8	.5	.4	.3	.1	.1	.0	.0	.0	.0	400	.6	3.5
-2	.0	.0	.0	.0	.0	.0	.1	1.7	1.6	1.2	.6	.9	.5	.3	.1	.0	.0	.0	.0	726	1.1	6.0
-3	.0	.0	.0	.0	.0	.0	.2	1.1	1.1	.5	.2	.3	.2	.0	.0	.0	.0	.0	.0	328	.4	3.1
-4	.0	.0	.0	.0	.0	.0	.6	2.0	1.1	.6	.4	.5	.3	.1	.0	.0	.0	.0	.0	518	.6	5.0
-5	.0	.0	.0	.0	.0	.1	.9	1.6	1.3	.6	.3	.4	.1	.1	.0	.0	.0	.0	.0	450	.4	3.1
-6	.0	.0	.0	.0	.0	.0	.8	.7	.3	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	192	.1	2.2
-7/-8	.0	.0	.0	.0	.0	.3	2.2	1.1	.5	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	417	.3	4.6
-9/-10	.0	.0	.0	.0	.0	.8	1.9	.8	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	355	.2	4.1
-11/-13	.0	.0	.0	.0	.0	.5	2.1	1.9	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	426	.2	5.3
-14/-16	.0	.0	.0	.1	.9	1.1	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	245	.1	2.9
-17/-19	.0	.0	.1	.4	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	137	.0	1.6
-20/-22	.0	.0	.1	.3	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	.0	.8
-23/-25	.0	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	.0	.4
-26/-30	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	.0	.3
<-30	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	.1
TOTAL																				10362		
PCT	.2	.4	1.0	2.3	5.1	9.5	11.6	13.5	12.5	10.5	13.4	9.0	6.0	3.1	1.3	.3	.1	.0	.0	100.0	21.3	78.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.1	.0	.0	.0	.9	.1	.7	.0	.0	.0	.0	.8
1-2	.0	1.2	.8	.0	.0	.0	2.0	.0	1.0	.7	.0	.0	.0	1.7
3-4	.0	.7	1.5	.3	.0	.0	2.5	.0	.4	1.1	.0	.0	.0	1.6
5-6	.0	.2	1.3	.5	.1	.0	2.1	.0	.2	.8	.3	.0	.0	1.3
7	.0	.1	.7	.7	.1	.0	1.6	.0	.1	.5	.3	.1	.0	1.0
8-9	.0	.0	.2	.3	.1	.0	.7	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.1	.4	.0	.0	.5	.0	.0	.0	.3	.1	.0	.4
12	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.3	.1	.0	.4	.0	.0	.0	.2	.1	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.9	4.8	2.7	.5	.0	11.2	.2	2.5	3.1	1.4	.4	.1	7.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.1	.0	.0	.0	.8	.2	.9	.1	.0	.0	.0	1.1
1-2	.0	1.2	.8	.0	.0	.0	2.1	.0	1.1	1.6	.0	.0	.0	2.8
3-4	.0	.5	1.1	.2	.0	.0	1.8	.0	.3	1.0	.2	.0	.0	1.5
5-6	.0	.1	.7	.2	.0	.0	1.0	.0	.2	.6	.3	.0	.0	1.0
7	.0	.1	.5	.2	.0	.0	.9	.0	.0	.4	.2	.0	.0	.7
8-9	.0	.0	.1	.3	.1	.0	.5	.0	.0	.2	.3	.1	.0	.6
10-11	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.1	.0	.0	.3
12	.0	.0	.0	.1	.1	.0	.3	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.1	.1	.0	.3	.0	.0	.1	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.5	3.6	1.3	.3	.0	8.0	.2	2.5	3.9	1.4	.3	.1	8.4

PERIOD: (OVER-ALL) 1963-1974

ANNUAL
TABLE 18 (CONT)AREA 0026 URUP ISLAND
46.2N 151.2E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.8	.2	.0	.0	.0	1.1	.3	1.3	.1	.0	.0	.0	1.7
1-2	.1	1.9	1.0	.0	.0	.0	3.1	.1	2.0	1.4	.0	.0	.0	3.5
3-4	.4	.9	2.0	.2	.0	.0	3.1	.4	.8	2.2	.2	.0	.0	3.3
5-6	.0	.2	1.4	.4	.0	.0	2.0	.0	.3	1.4	.2	.0	.0	1.9
7	.0	.0	.5	.5	.0	.0	1.1	.0	.1	.8	.4	.0	.0	1.3
8-9	.0	.0	.1	.3	.0	.0	.4	.0	.0	.2	.3	.1	.0	.6
10-11	.0	.0	.1	.1	.1	.0	.2	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.8	5.3	1.6	.2	.0	11.3	.4	4.6	6.4	1.5	.2	.0	13.1

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.6	.1	.0	.0	.0	.8	.1	.6	.1	.0	.0	.0	.7
1-2	.0	1.7	1.6	.0	.0	.0	3.3	.0	1.0	1.2	.0	.0	.0	2.2
3-4	.0	.8	2.1	.4	.0	.0	3.3	.0	.8	2.1	.6	.0	.0	3.5
5-6	.1	.3	2.2	1.0	.2	.0	3.7	.0	.1	1.9	1.1	.1	.0	3.3
7	.0	.2	1.4	1.2	.2	.0	3.0	.0	.1	1.1	1.1	.2	.0	2.5
8-9	.0	.0	.6	.8	.2	.0	1.6	.0	.0	.6	.9	.1	.0	1.7
10-11	.0	.0	.3	.7	.2	.0	1.2	.0	.0	.2	.7	.3	.1	1.3
12	.0	.0	.2	.2	.0	.0	.6	.0	.1	.0	.3	.2	.0	.6
13-16	.0	.0	.0	.4	.2	.0	.6	.0	.0	.1	.3	.2	.1	.6
17-19	.0	.0	.0	.1	.1	.0	.3	.0	.0	.0	.1	.1	.0	.2
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.6	8.6	4.9	1.3	.1	18.7	.2	2.6	7.5	5.1	1.3	.1	95.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.9	6.0	.6	.0	.0	.0	12.6	
1-2	.5	11.2	9.1	.0	.0	.0	20.8	
3-4	.2	5.1	13.1	2.1	.0	.0	20.6	
5-6	.2	1.5	10.4	4.0	.4	.0	16.4	
7	.1	.8	6.0	4.6	.6	.0	12.3	
8-9	.0	.1	2.2	3.4	.6	.0	6.3	
10-11	.0	.1	1.0	2.6	.7	.1	4.4	
12	.0	.1	.4	.9	.5	.1	2.0	
13-16	.0	.0	.3	1.5	.7	.2	2.7	
17-19	.0	.0	.2	.5	.4	.0	1.2	
20-22	.0	.0	.0	.1	.2	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.1	
26-32	.0	.0	.0	.0	.1	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TCT PCT	6.9	25.0	43.3	19.8	4.5	.5	100.0	4338

PERIOD: (OVER-ALL) 1954-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	7.5	10.0	6.6	3.8	1.4	.5	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2195
6-7	.1	1.5	4.1	6.1	4.9	3.3	2.4	.7	1.1	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	1890
8-9	.0	.6	1.9	2.3	3.3	2.1	1.7	1.0	1.5	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1032
10-11	.0	.7	.5	.8	.9	.9	.7	.4	.6	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	412
12-13	.0	.0	.6	.4	.2	.2	.6	.3	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	216
15-16	.0	.0	.0	.3	.2	.2	.2	.2	.3	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	116
INDU	3.5	2.6	3.8	2.7	1.9	.9	1.1	.4	.6	.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	1260
TOTAL	4.8	12.8	20.9	19.3	15.2	9.0	7.3	3.1	4.5	1.5	.9	.4	.2	.0	.0	.0	.0	.0	.0	.0	6921
PCT	4.8	12.8	20.9	19.3	15.2	9.0	7.3	3.1	4.5	1.5	.9	.4	.2	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

TABLE 20

AREA 0026 URUP ISLAND
46.2N 151.2E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	4	*
65/66	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	3	*
63/64	.0	.0	.0	.0	.0	.0	.1	.7	.8	.0	.0	.0	20	.2
61/62	.0	.0	.0	.0	.0	.1	.2	1.3	.5	.2	.0	.0	28	.2
59/60	.0	.0	.0	.0	.0	.0	.3	2.9	2.1	.5	.0	.0	70	.6
57/58	.0	.0	.0	.0	.1	.2	.9	4.7	4.5	1.0	.0	.0	138	1.2
55/56	.0	.0	.0	.0	.0	.1	1.0	7.8	6.4	2.5	.0	.0	213	1.8
53/54	.0	.0	.0	.1	.2	.1	2.9	9.5	9.4	5.6	.8	.0	330	2.8
51/52	.0	.0	.0	.0	.2	.8	5.3	9.9	12.2	7.6	.8	.0	425	3.7
49/50	.0	.0	.0	.4	.2	1.2	10.1	12.6	14.0	11.4	1.9	.0	590	5.1
47/48	.6	.1	.3	.5	.5	1.7	9.5	10.7	12.1	12.5	4.6	.5	577	5.0
45/46	.7	.9	1.0	.7	.5	5.9	21.3	17.7	19.1	22.3	12.8	3.5	1110	9.6
43/44	.4	1.3	.8	.8	1.6	10.5	13.2	8.7	8.0	13.3	14.9	5.2	772	6.7
41/42	2.4	1.5	1.6	1.7	3.9	13.6	10.7	6.7	5.2	11.8	22.2	9.2	817	7.0
39/40	9.8	4.2	4.7	3.7	10.0	22.2	12.8	5.0	4.0	7.8	18.0	16.9	1123	9.7
37/38	19.7	9.8	8.5	10.5	21.7	22.7	9.0	1.5	1.5	2.3	14.3	28.3	1339	11.5
35/36	28.7	22.0	18.5	25.5	30.6	17.8	2.2	.0	.0	1.0	7.1	25.3	1618	13.9
33/34	26.1	32.2	33.1	35.1	22.7	2.9	.7	.0	.0	.2	1.0	7.2	1496	12.9
31/32	8.8	22.6	26.1	15.4	6.9	.3	.0	.0	.0	.0	1.3	1.7	754	6.5
29/30	1.8	5.3	4.8	2.7	.8	.0	.0	.0	.0	.0	.2	1.5	146	1.3
27/28	.9	.0	.6	1.1	.0	.0	.0	.0	.0	.0	.0	.7	27	.2
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	705	759	963	1060	1297	1306	1301	1290	1211	833	477	403	11601	100.0
MEAN	39.6	34.4	34.2	34.8	36.2	39.4	44.4	48.9	49.8	46.1	41.2	37.7	40.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MC	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1007	1005	1007	1008	1007	1008	1008	1002	1007	747
FEB	1009	1011	1008	1008	1008	1006	1007	1007	1008	798
MAR	1010	1005	1010	1010	1012	1008	1010	1011	1010	1075
APR	1013	1009	1013	1012	1014	1011	1013	1010	1013	1351
MAY	1012	1010	1012	1010	1011	1011	1012	1011	1011	1389
JUN	1013	1011	1012	1011	1012	1012	1013	1011	1012	1292
JUL	1012	1010	1011	1011	1013	1011	1012	1011	1011	1339
AUG	1011	1013	1011	1012	1011	1012	1011	1013	1012	1378
SEP	1015	1015	1014	1014	1015	1013	1015	1014	1014	1251
OCT	1016	1014	1013	1014	1016	1015	1014	1014	1014	898
NOV	1010	1014	1010	1008	1017	1009	1011	1016	1011	472
DEC	1009	1011	1008	1011	1010	1012	1010	1013	1010	406
ANN	1011	1011	1011	1011	1012	1011	1011	1011	1011	12396
OBS	2256	1223	2135	1075	2016	1012	1645	1034		

PERCENTILES

MC	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	978	981	989	1000	1008	1014	1021	1026	1033
FEB	976	985	992	1001	1008	1015	1023	1030	1034
MAR	974	978	989	1005	1011	1017	1024	1028	1034
APR	976	983	993	1006	1013	1021	1030	1034	1038
MAY	985	991	994	1005	1012	1018	1025	1030	1037
JUN	987	992	1001	1008	1017	1016	1022	1026	1031
JUL	989	994	1001	1008	1011	1015	1021	1025	1030
AUG	991	995	998	1007	1012	1017	1022	1025	1028
SEP	989	994	1002	1010	1014	1018	1026	1031	1034
OCT	985	989	997	1009	1015	1021	1028	1032	1037
NOV	981	983	990	1004	1012	1018	1028	1033	1034
DEC	979	983	989	1001	1010	1018	1028	1034	1036

PERIOD: (PRIMARY) 1931-1970
(OVER-ALL) 1906-1970

JANUARY

AREA 0027 VLADIVOSTOK
41.8N 130.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	7.6	.0	.0	7.6	.0	.0	1.2	.0	.0	.0	91.1
NE	.0	.0	.0	.0	13.5	.0	.0	13.5	2.2	.0	2.2	.0	.0	.0	82.0
E	.0	.0	.0	.0	21.6	.0	.0	21.6	.0	.0	.0	.0	.0	.0	78.4
SE	4.1	.0	.0	.0	49.0	.0	.0	53.1	.0	.0	.0	.0	.0	.0	46.9
S	.0	.0	.0	.0	23.1	.0	.0	23.1	.0	.0	.0	.0	.0	.0	76.9
SW	.0	.0	.0	.0	5.3	.0	.0	5.3	.0	.0	5.3	.0	.0	.0	89.3
W	.0	.0	.0	.0	13.0	.0	.0	13.0	.0	.0	.0	.0	.0	.0	87.0
NW	.0	.0	.0	.0	3.5	.0	.0	3.5	.0	.0	.0	.0	1.0	.0	95.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.2	.0	.0	.0	11.1	.0	.0	11.3	.2	.0	1.0	.0	.2	.0	87.2
TOT OBS:	415														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	.0	.0	.0	.0	12.1	.0	.0	12.1	.7	.0	.7	.0	.0	.0	86.5
06009	.0	.0	.0	.0	5.0	.0	.0	5.0	.0	.0	1.0	.0	1.0	.0	93.0
12015	1.0	.0	.0	.0	10.7	.0	.0	11.7	.0	.0	1.9	.0	.0	.0	86.4
18021	.0	.0	.0	.0	19.2	.0	.0	19.2	.0	.0	.0	.0	.0	.0	80.8
TOT PCT	.2	.0	.0	.0	11.4	.0	.0	11.6	.2	.0	.9	.0	.2	.0	87.0
TOT OBS:	422														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	2.9	11.8	13.9	9.0	1.7	.0		39.2	15.6	53.6	33.1	36.5	43.5	38.7	35.2	49.1	42.3
NE	1.1	5.0	3.7	.8	.1	.0		10.6	10.7	19.0	16.9	6.3	7.0	5.6	8.2	3.6	11.9
E	.1	3.0	1.9	.1	.3	.0		5.3	12.1	5.7	8.5	12.5	2.2	6.5	4.7	1.8	9.0
SE	1.5	3.7	.4	.0	.0	.0		5.5	6.1	.0	8.1	2.1	3.2	6.5	5.5	5.4	7.1
S	1.2	1.9	.3	.0	.0	.0		3.6	6.3	1.4	1.5	.0	6.5	3.2	6.6	3.6	1.2
SW	1.5	2.0	.4	.0	.0	.0		3.8	5.6	1.4	4.0	.0	5.9	.0	6.3	.0	2.4
W	1.4	2.3	.4	.4	.2	.0		4.7	8.6	4.3	1.8	4.2	4.8	11.3	5.9	9.8	3.6
NW	1.6	8.7	7.6	5.0	2.4	.0		25.2	15.9	18.6	22.4	34.4	26.9	21.8	27.7	23.2	26.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	.0	3.7	4.2	.0	6.5	.0	3.6	2.4
TOT OBS	74	214	160	85	26	0	559		13.1	34	136	24	93	31	128	28	84
TOT PCT	13.2	38.3	28.6	15.2	4.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40				00	03	06	12	18
N	6.6	15.1	12.3	5.1	.2		39.2	15.6	37.3	42.1	35.8	44.0
NE	3.5	4.9	2.2	.1	.0		10.6	10.7	16.5	6.8	7.7	9.8
E	1.3	3.0	.8	.1	.2		5.3	12.1	7.9	4.3	5.0	2.7
SE	3.0	2.5	.0	.0	.0		5.5	6.1	6.4	3.0	5.7	6.7
S	2.5	.7	.4	.0	.0		3.6	6.3	1.5	5.1	6.0	1.8
SW	2.4	1.4	.0	.0	.0		3.8	5.6	3.5	4.7	5.0	1.8
W	3.0	.9	.6	.0	.2		4.7	8.6	2.3	4.7	6.9	3.1
NW	5.7	8.9	6.5	3.5	.5		25.2	15.9	21.6	28.4	26.6	25.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	2.9	.9	1.3	2.7
TOT OBS	168	209	127	49	6	559		13.1	171	117	159	112
TOT PCT	30.1	37.4	22.7	8.8	1.1		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1931-1970
(OVER-ALL) 1906-1970

TABLE 4

AREA 0027 VLADIVOSTOK
41.8N 130.9E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	2.9	9.9	39.8	27.5	14.6	5.3	.0	12.9	100.0	171
0600	.9	10.3	39.3	36.8	10.3	2.6	.0	12.2	100.0	117
1200	1.3	16.4	35.8	22.6	19.5	4.4	.0	13.3	100.0	159
1800	2.7	7.1	38.4	30.4	15.2	6.3	.0	14.1	100.0	112
TOT	11	63	214	160	89	26	0	13.1		559
PCT	2.0	11.3	38.3	28.6	15.2	4.7	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	24.4	7.1	3.6	11.3		3.0
NE	.6	.0	.0	3.0		6.6
E	.0	.0	3.6	4.8		7.0
SE	.0	4.8	1.2	.0		3.8
S	.0	2.4	3.6	.0		3.2
SW	.0	.0	1.2	.0		6.0
W	1.8	.0	.0	2.4		4.5
NW	20.8	.0	1.2	2.4		1.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	20	6	6	10	42	3.4
TOT PCT	47.6	14.3	14.3	23.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	2.4	.0	.0	.0	.0	.0	6.0	.0	1.8	.0	36.3	
NE	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.6	
E	.0	.0	.0	.0	.0	6.0	.0	.0	.0	.0	2.4	
SE	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	4.8	
S	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	4.8	
SW	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	1.8	
NW	2.4	.0	.0	.0	.0	.0	1.2	.0	.0	.0	20.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	2	0	0	0	0	4	4	0	2	0	30	42
TOT PCT	4.8	.0	.0	.0	.0	9.5	9.5	.0	4.8	.0	71.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
= OR >5000	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
= OR >3500	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
= OR >2000	13.6	15.9	20.5	22.7	25.0	25.0	25.0	25.0
= OR >1000	13.6	15.9	20.5	22.7	25.0	25.0	25.0	25.0
= OR >600	13.6	15.9	20.5	22.7	25.0	25.0	25.0	25.0
= OR >300	13.6	15.9	20.5	22.7	25.0	25.0	25.0	25.0
= OR >150	13.6	15.9	20.5	22.7	25.0	25.0	25.0	25.0
= OR >0	13.6	15.9	25.0	27.3	29.5	29.5	29.5	29.5
TOTAL	6	7	11	12	13	13	13	13

TOTAL NUMBER OF OBS: 44

PCT FREQ NM <5/8: 70.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	35.9	3.9	11.8	7.8	5.9	.0	7.8	3.9	19.6	3.9	51

PERIOD: (PRIMARY) 1931-1970
(OVER-ALL) 1906-1970

JANUARY

AREA 0027 VLADIVOSTOK
41.8N 130.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.6	.4	.2	1.0	.2	.0	.2	.0	.0	.0	2.7	
	NN PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.4	.2	1.0	.2	.0	.2	.0	.0	.0	2.7	
1/2<1	PCP	.2	.4	.4	1.7	.0	.2	.0	.0	.0	.0	2.9	
	NN PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.6	.4	1.7	.0	.2	.0	.0	.0	.0	3.1	
1<2	PCP	.8	.0	.0	.2	.0	.0	.0	.4	.0	.0	1.4	
	NN PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.8	.0	.0	.2	.0	.0	.0	.4	.0	.0	1.4	
2<5	PCP	.2	.5	.1	.2	.4	.0	.2	.2	.0	.0	1.9	
	NN PCP	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.2	.5	.6	.2	.4	.0	.2	.2	.0	.0	2.4	
5<10	PCP	1.0	.2	.2	.0	.2	.0	.1	.1	.0	.0	1.9	
	NN PCP	4.5	2.0	1.1	1.3	.8	1.3	.7	3.7	.0	.5	15.9	
	TOT %	5.4	2.2	1.3	1.3	1.1	1.3	.8	3.8	.0	.5	17.8	
10+	PCP	.1	.0	.0	.0	.2	.0	.0	.1	.0	.0	.5	
	NN PCP	32.0	7.0	1.9	1.4	2.8	3.0	3.3	19.8	.0	.7	72.0	
	TOT %	32.1	7.0	1.9	1.4	3.0	3.0	3.3	19.9	.0	.7	72.5	
TOT OBS													
TOT PCT													
39.3 10.7 4.5 5.9 4.7 4.6 4.6 24.3 .0 1.2 100.0													

415

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.4	
	4-10	.0	.0	.2	.9	.0	.0	.0	.0	.0	.0	1.1	
	11-21	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
	TOT %	1.0	.3	.2	.9	.2	.0	.2	.0	.0	.0	2.8	
1/2<1	0-3	.0	.0	.1	.7	.0	.2	.0	.0	.0	.0	1.1	
	4-10	.2	.4	.0	.9	.0	.0	.0	.0	.0	.0	1.5	
	11-21	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.7	.4	1.6	.0	.2	.0	.0	.0	.0	3.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.5	.2	.0	.2	.0	.0	.0	.1	.0	.0	1.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.5	.0	.0	.0	.0	.0	.0	.7	.0	.0	1.3	
	TOT %	1.1	.2	.0	.2	.0	.0	.0	.9	.0	.0	2.3	
2<5	0-3	.4	.4	.0	.1	.2	.1	.2	.0	.0	.2	1.7	
	4-10	.2	.7	.6	.1	.0	.2	.1	.3	.0	.0	2.3	
	11-21	.2	.0	.4	.0	.2	.0	.0	.4	.0	.0	1.5	
	22+	.7	.0	.2	.0	.0	.0	.0	.3	.0	.0	1.3	
	TOT %	1.6	1.2	1.3	.2	.4	.5	.3	1.1	.0	.2	6.8	
5<10	0-3	.4	.2	.0	.2	.2	.4	.2	.0	.0	.4	2.1	
	4-10	1.0	1.5	.5	1.0	.3	.7	.5	1.3	.0	.0	6.8	
	11-21	1.2	.5	.6	.0	.4	.0	.2	1.3	.0	.0	4.3	
	22+	2.6	.0	.0	.0	.0	.0	.0	.8	.0	.0	3.4	
	TOT %	5.2	2.2	1.2	1.2	1.0	1.2	1.0	3.4	.0	.4	16.6	
10+	0-3	1.9	.6	.0	.5	.7	1.1	1.0	1.8	.0	.6	8.3	
	4-10	10.9	2.9	1.3	.7	1.9	1.4	1.8	7.0	.0	.0	27.9	
	11-21	12.4	3.0	.3	.0	.0	.2	.2	5.8	.0	.0	21.9	
	22+	5.6	.4	.1	.0	.0	.0	.1	3.9	.0	.0	10.2	
	TOT %	30.8	7.0	1.7	1.3	2.7	2.7	3.0	18.6	.0	.6	68.3	
TOT OBS													
TOT PCT													
19.8 11.6 4.8 5.3 4.3 4.6 4.5 23.8 .0 1.3 100.0													

470

JANUARY

PERIOD: (PRIMARY) 1931-1970
(OVER-ALL) 1906-1970AREA 0027 VLADIVOSTOK
41.8N 130.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	180 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	5.3	.0	.0	.0	.0	15.8	15.8	.0	10.5	.0	47.4	52.6	19
06009	.0	.0	.0	.0	.0	9.1	9.1	.0	.0	.0	18.2	81.8	11
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	7
18021	11.1	.0	.0	.0	.0	11.1	.0	.0	.0	.0	22.2	77.8	9
TOT PCT	4.2 4.3	0 .0	0 .0	0 .0	0 .0	5 10.9	4 8.7	0 .0	2 4.3	0 .0	13 28.3	33 71.7	46 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.3	4.6	1.3	4.6	11.9	76.2	151
06009	.9	.9	.0	4.7	16.0	76.4	106
12015	2.5	3.3	1.6	9.0	26.2	57.4	122
18021	7.1	3.1	8.2	9.2	12.2	60.2	98
TOT PCT	13 2.7	15 3.1	13 2.7	32 6.7	79 16.6	325 68.1	477 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	5.6	11.1	22.2	27.8	50.0	18
06009	.0	.0	9.1	18.2	72.7	11
12015	.0	.0	.0	.0	100.0	6
18021	11.1	11.1	22.2	.0	77.8	9
TOT PCT	2 4.3	3 6.8	7 15.9	7 15.9	30 68.2	44 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
25/29	.0	.0	.0	5.0	9.0	5.0	.0	15.0	6	30.0
20/24	.0	.0	.0	.0	8.0	5.0	20.0	.0	6	30.0
15/19	.0	.0	.0	5.0	25.0	.0	.0	.0	6	30.0
10/14	.0	.0	.0	5.0	.0	.0	.0	5.0	2	10.0
TOTAL PCT	0 .0	0 .0	0 .0	3 15.0	7 35.0	2 10.0	4 20.0	4 20.0	20 100.0	

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
25/29	.0	10.0	5.0	5.0	5.0	.0	3.8	1.3	.0	.0
20/24	3.8	10.0	5.0	.0	.0	.0	.0	11.3	.0	.0
15/19	25.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0
10/14	8.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	37.5	21.3	10.0	5.0	5.0	.0	3.8	17.5	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	39	38	36	23	9	5	5	22.9	170
06009	41	40	34	23	9	5	5	22.2	117
12015	43	39	32	21	9	3	3	21.2	158
18021	39	38	36	21	9	3	3	21.0	111
TOT	43	39	36	21	9	3	3	21.9	556

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	27.3	36.4	9.1	18.2	9.1	67	11
06009	.0	25.0	50.0	.0	.0	25.0	70	4
12015	.0	.0	50.0	.0	50.0	.0	74	2
18021	.0	.0	.0	20.0	20.0	60.0	89	5
TOT	0	4	7	2	4	5	73	22

JANUARY

PERIOD: (PRIMARY) 1931-1970
(OVER-ALL) 1904-1970AREA 0027 VLADIVOSTOK
41.8N 130.9E

TABLE 17

PCT PRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	1	.0	.3
9	.0	.0	.0	.0	.0	.0	.0	.0	.3	.7	.3	4	.3	1.0
4	.0	.0	.0	.0	.0	.0	.0	.3	.7	.3	.0	4	.0	1.3
2	.0	.0	.0	.0	.0	.0	.0	.3	1.3	.3	.0	6	.0	2.0
0	.0	.0	.0	.0	.0	.0	2.6	2.9	1.6	.3	.3	24	.0	7.8
-1	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	1	.0	.3
-2	.0	.0	.0	.0	.0	.0	2.6	1.3	2.0	.0	.0	18	.0	5.9
-4	.0	.0	.0	.0	.0	.0	4.6	.7	1.6	.0	.0	21	.0	6.8
-5	.0	.0	.0	.0	.0	.7	5.5	1.6	.0	.0	.0	24	.0	7.8
-6	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	1	.0	.3
-7/-8	.0	.0	.0	.0	.0	3.9	3.9	2.3	.0	.0	.0	31	.7	9.4
-9/-10	.0	.0	.0	.0	.0	2.9	4.6	4.2	.7	.0	.0	38	.0	12.4
-11/-13	.0	.0	.0	1.6	6.5	6.2	3.2	.3	.0	.0	.0	61	.0	19.9
-14/-16	.0	.0	1.3	3.3	3.3	1.6	.3	.0	.0	.0	.0	30	.0	9.8
-17/-19	.0	.0	2.6	.7	1.3	.7	.0	.0	.0	.0	.0	16	.0	5.2
-20/-22	.0	1.0	2.9	.3	.7	.0	.0	.0	.0	.0	.0	15	.0	4.9
-23/-25	.3	1.6	.7	.3	.3	.0	.0	.0	.0	.0	.0	10	.0	3.3
-26/-30	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
<-30	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	1	10	23	46	54	90	24	5	2			307	3	304
PCT	.3	3.3	7.9	6.2	15.0	17.6	29.3	10.7	7.8	1.6	.7	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	3.2	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	21.8	.0	.0	.0	21.8	.0	.0	6.5	.0	.0	.0	6.5
3-4	.0	3.2	8.1	3.2	.0	.0	14.5	.0	.0	.8	.0	.0	.0	.8
5-6	.0	.0	3.2	2.4	.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	2.4	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	2.4	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	3.2	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.5	33.1	13.7	.0	.0	53.2	.0	.0	7.3	.0	.0	.0	7.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	3.2	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	3.2	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	6.5	.0	.0	.0	6.5	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1970

JANUARY
TABLE 18 (CONT)AREA 0027 VLADIVOSTOK
41.8N 130.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.8	.0	.0	.0	.0	4.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.5	3.2	.0	.0	.0	13.7
5-6	.0	.0	9.6	.0	.0	.0	5.6	.0	.0	.8	.8	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.8	.0	.0	.0	4.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	3.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	9.6	.0	.0	.0	5.6	.0	3.2	18.5	3.6	.0	.0	27.4	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	3.2	.0	.0	.0	.0	3.2	.0
1-2	.0	3.2	32.3	.0	.0	.0	35.5	.0
3-4	.0	3.2	22.6	6.5	.0	.0	32.3	.0
5-6	.0	.0	9.7	3.2	.0	.0	12.9	.0
7	.0	.0	3.2	3.2	.0	.0	6.5	.0
8-9	.0	.0	3.2	.0	.0	.0	3.2	.0
10-11	.0	.0	.0	3.2	.0	.0	3.2	.0
12	.0	.0	.0	3.2	.0	.0	3.2	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.7	71.0	19.4	.0	.0	100.0	31

PERIOD: (OVER-ALL) 1964-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	24.2	24.2	3.0	3.0	.0	3.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	4
6-7	.0	.0	.0	3.0	3.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.0	15.2	6.1	3.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	3
TOTAL	1	13	10	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	33	4
PCT	3.0	39.4	30.3	9.1	6.1	6.1	3.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1933-1966
(OVER-ALL) 1904-1966

FEBRUARY

AREA 0027 VLADIVOSTOK
41.7N 130.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.0	.0	.0	.0	3.8	.0	.0	3.8	1.3	.0	2.1	.0	.0	.0	92.8
NE	.0	.0	.0	.0	9.7	.0	.0	9.7	.0	.0	3.2	.0	.0	.0	87.0
E	.0	.0	.0	.0	15.0	.0	.0	15.0	.0	.0	7.3	.0	.0	.0	77.3
SE	.0	.0	.0	.0	21.1	.0	.0	21.1	.0	.0	2.6	.0	.0	.0	76.3
S	.0	.0	.0	.0	8.9	.0	.0	8.9	.0	.0	8.9	.0	.0	.0	82.3
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	.0	.0	.0	94.7
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	.0	.0	.0	92.6
NW	.0	.0	.0	.0	.6	.0	.0	.6	.6	.0	2.8	.0	.0	.0	96.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	83.3
TOT PCT	.0	.0	.0	.0	5.1	.0	.0	5.1	.5	.0	4.3	.0	.0	.0	90.1
TOT OBS:	392														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	.0	.0	.0	.0	3.9	.0	.0	3.9	.0	.0	6.3	.0	.0	.0	89.8
06009	.0	.0	.0	.0	6.8	.0	.0	6.8	.0	.0	1.9	.0	.0	.0	91.3
12015	.0	.0	.0	.0	5.9	.0	.0	5.9	1.0	.0	2.0	.0	.0	.0	91.2
18021	.0	.0	.0	.0	4.5	.0	.0	4.5	1.5	.0	7.3	.0	.0	.0	86.6
TOT PCT	.0	.0	.0	.0	5.3	.0	.0	5.3	.5	.0	4.3	.0	.0	.0	90.0
TOT OBS:	399														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.6	10.9	11.8	4.4	.6	.0		30.5	13.5		25.0	27.6	45.0	18.3	46.9	31.7	39.8	41.8
NE	1.7	6.2	2.9	.4	.0	.0		11.1	8.9		16.7	16.3	13.3	7.7	1.0	9.3	6.8	12.1
E	.7	3.4	.2	.1	.0	.0		4.4	7.1		.0	8.5	6.7	5.3	.0	2.0	.0	2.9
SE	1.6	2.8	.2	.0	.0	.0		4.6	4.9		.0	2.2	.0	11.1	.0	4.8	4.5	2.9
S	2.8	5.9	.8	.0	.0	.0		9.5	5.0		.0	10.7	6.7	17.8	2.1	6.5	6.8	6.4
SW	.9	5.8	.3	.0	.0	.0		6.9	6.3		.0	6.3	.0	11.1	6.3	8.9	6.8	2.1
W	.8	3.7	1.1	.2	.0	.0		5.8	8.3		2.8	3.3	.0	7.7	19.8	6.0	.0	6.4
NW	2.2	9.0	7.9	3.7	.7	.0		23.1	13.3		30.0	22.0	15.0	16.3	15.6	26.0	30.7	25.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0		5.6	3.0	13.3	4.8	8.3	4.8	4.5	.0
TOT OBS	89	244	127	43	7	0	512		10.1		18	135	15	104	24	124	22	70
TOT PCT	17.4	47.7	24.8	8.8	1.4	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	7.1	12.3	8.3	2.6	.1		30.5	13.5	27.3	21.6	34.1	41.3	
NE	4.1	6.0	.9	.1	.0		11.1	8.9	16.3	8.4	7.9	10.9	
E	2.1	2.2	.1	.0	.0		4.4	7.1	7.5	5.3	1.7	2.2	
SE	3.7	.9	.0	.0	.0		4.6	4.9	2.0	9.7	4.1	3.3	
S	8.1	1.4	.0	.0	.0		9.5	5.0	9.5	16.4	5.7	6.5	
SW	4.3	2.6	.0	.0	.0		6.9	6.3	5.6	9.7	8.4	3.3	
W	2.7	2.6	.3	.0	.0		5.8	8.3	3.3	6.7	8.3	4.9	
NW	6.7	8.0	6.5	1.8	.1		23.1	13.3	25.3	16.2	24.3	26.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.1						4.1	.0	3.3	5.9	5.4	1.1	
TOT OBS	220	184	84	23	1	512		10.1	159	119	148	92	
TOT PCT	43.0	35.9	16.4	4.5	.2		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1933-1966
(OVER-ALL) 1904-1966

AREA 0027 VLADIVOSTOK
41.7N 130.0E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	3.3	13.1	45.8	29.4	7.8	.7	.0	10.2	100.0	133
0600Z	5.9	16.0	52.9	19.3	5.9	.0	.0	8.0	100.0	119
12015	5.4	12.2	48.0	19.6	12.0	2.0	.0	10.9	100.0	148
18021	1.1	12.0	43.5	32.6	7.6	3.3	.0	11.3	100.0	92
YDT	21	68	244	127	45	7	0	10.1		512
PCT	4.1	13.3	47.7	24.8	8.8	1.4	.0		100.0	

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

BY WIND DIRECTION						
WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	33.0	.0	13.0	8.0		3.1
NE	5.0	.0	.0	.0		1.0
E	.0	.0	.0	.0		.0
SE	.0	.0	.0	.0		.0
S	.0	.0	.0	.0		.0
SW	.0	.0	.0	.0		.0
W	3.0	.0	.0	.0		1.0
NW	19.0	.0	11.0	8.0		3.7
VAP	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	15	.0	4	4	25	3.2
TOT PCT	60.0	.0	24.0	16.0	100.0	

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $\leq 5/8$ BY WIND DIRECTION

[illegible]

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSOBY (NM)

CEILING (FEET)	VSBY (NM)							
	≥ DR ≥10	≥ DR ≥5	≥ DR ≥2	≥ DR ≥1	≥ DR ≥1/2	≥ DR ≥1/4	≥ DR ≥50YD	≥ DR ≥0
≥ DR ≥3500	.0	.0	.0	.0	.0	.0	.0	.0
≥ DR ≥3000	.0	.0	.0	.0	.0	.0	.0	.0
≥ DR ≥3500	.0	.0	.0	.0	.0	.0	.0	.0
≥ DR ≥2000	.0	.0	.0	.0	.0	.0	.0	.0
≥ DR ≥1000	11.5	15.4	19.2	19.2	23.1	23.1	23.1	23.1
≥ DR ≥600	15.4	26.9	30.8	30.8	34.6	34.6	34.6	34.6
≥ DR ≥300	15.4	26.9	30.8	30.8	34.6	34.6	34.6	34.6
≥ DR ≥150	15.4	26.9	30.8	30.8	34.6	34.6	34.6	34.6
≥ DR ≥0	15.4	26.9	30.8	30.8	34.6	34.6	34.6	34.6
TOTAL	4	7	8	8	9	9	9	9

PCT FREQ NM 45/8. 65.4

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
37.0	22.2	3.7	.0	.0	.0	11.1	7.4	10.5	.0	27

PERIOD: (PRIMARY) 1933-1966
(OVER-ALL) 1904-1966

FEBRUARY

AREA 0027 VLADIVOSTOK
41.7N 130.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.3	.3	.1	.1	.3	.0	.0	.0	.0	1.0	
	TOT %	.0	.5	.3	.1	.1	.3	.0	.0	.0	.0	1.3	
1/2<1	PCP	.6	.0	.3	.3	.0	.0	.0	.1	.0	.0	1.3	
	NO PCP	.0	.1	.1	.0	.3	.0	.0	.0	.0	.0	.5	
	TOT %	.6	.1	.4	.3	.3	.0	.0	.1	.0	.0	1.8	
1<2	PCP	.0	.1	.4	.3	.3	.0	.0	.0	.0	.0	1.0	
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3	
	TOT %	.0	.1	.4	.3	.3	.1	.1	.0	.0	.0	1.3	
2<5	PCP	.3	.5	.1	.1	.5	.0	.0	.0	.0	.0	1.8	
	NO PCP	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3	
	TOT %	.6	.5	.1	.1	.5	.0	.1	.0	.0	.0	2.0	
5<10	PCP	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.5	
	NO PCP	4.7	1.8	1.3	.4	2.2	1.0	.6	3.1	.0	.3	15.3	
	TOT %	4.7	1.8	1.3	.8	2.3	1.0	.6	3.1	.0	.3	15.8	
10+	PCP	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	24.2	8.5	2.7	3.3	6.6	5.9	4.4	19.1	.0	2.8	77.6	
	TOT %	24.2	8.7	2.7	3.3	6.6	5.9	4.4	19.1	.0	2.8	77.8	
TOT OBS													392
TOT PCT		30.2	11.8	5.1	4.8	10.1	7.3	5.2	22.4	.0	3.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.5	.2	.1	.2	.3	.2	.0	.0	.0	1.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.5	.2	.1	.2	.3	.2	.0	.0	.0	1.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.1	.3	.2	.2	.0	.2	.1	.0	.0	1.6	
	11-21	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.1	.3	.2	.2	.0	.2	.1	.0	.0	1.8	
1<2	0-3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
	4-10	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.5	
	11-21	.3	.0	.0	.2	.2	.0	.1	.2	.0	.0	1.1	
	22+	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.5	.2	.3	.2	.2	.1	.2	.2	.0	.0	2.0	
2<5	0-3	.0	.0	.0	.5	.7	.2	.2	.9	.0	.0	2.5	
	4-10	.9	.8	.2	.3	.7	.1	.3	.9	.0	.0	4.3	
	11-21	1.1	.5	.0	.0	.2	.0	.0	.0	.0	.0	1.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	2.0	1.2	.2	.8	1.6	.3	.6	1.8	.0	.0	8.6	
5<10	0-3	.9	.1	.1	.6	1.0	.0	.0	.0	.0	.2	2.9	
	4-10	1.6	.8	1.0	.1	1.0	.9	.3	.8	.0	.0	6.5	
	11-21	1.2	.7	.0	.0	.0	.0	1.0	.0	.0	.0	2.9	
	22+	.5	.0	.0	.0	.0	.0	.2	.9	.0	.0	1.6	
	TOT %	4.2	1.6	1.1	.7	2.0	.9	.6	2.7	.0	.2	14.0	
10+	0-3	1.9	1.6	.7	.6	1.4	.7	.3	1.2	.0	2.9	11.3	
	4-10	8.2	4.2	1.8	2.4	4.2	4.5	2.8	7.6	.0	.0	35.7	
	11-21	8.1	1.9	.2	.0	.5	.3	.8	6.0	.0	.0	17.8	
	22+	3.7	.3	.1	.0	.0	.0	.0	2.9	.0	.0	7.0	
	TOT %	21.9	8.0	2.8	2.9	6.0	5.5	4.0	17.7	.0	2.9	71.8	
TOT OBS													443
TOT PCT		99.3	11.6	5.1	5.0	10.3	7.2	5.8	22.6	.0	3.2	100.0	

PERIOD: (PRIMARY) 1933-1966
(OVER-ALL) 1904-1966

FEBRUARY

AREA 0027 VLADIVOSTOK
41.7N 130.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	20.0	80.0	5
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6
12015	.0	.0	.0	.0	40.0	.0	.0	.0	.0	.0	40.0	60.0	10
18021	.0	.0	.0	40.0	40.0	.0	.0	.0	.0	.0	80.0	20.0	5
TOT	.0	.0	.0	3	6	.0	.0	.0	.0	.0	9	17	26
PCT	.0	.0	.0	11.5	23.1	.0	.0	.0	.0	.0	34.6	65.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.2	.7	.7	5.8	8.7	81.9	138
06009	.9	2.6	.9	7.9	14.9	72.8	114
12015	2.5	2.5	1.7	11.8	17.6	63.9	119
18021	1.3	1.3	6.9	10.1	16.5	64.6	79
TOT	.8	.8	.9	39	63	323	450
PCT	1.8	1.8	2.0	8.7	14.0	71.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	20.0	.0	80.0	5
06009	.0	.0	.0	.0	100.0	6
12015	.0	10.0	20.0	20.0	60.0	10
18021	.0	.0	40.0	40.0	20.0	5
TOT	.0	1	5	4	17	26
PCT	.0	3.8	19.2	15.4	65.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
37/34	.0	.0	.0	.0	.0	23.5	29.4	.0	9	52.9
29/29	.0	.0	.0	.0	5.9	.0	5.9	.0	3	17.6
20/24	.0	.0	.0	5.9	.0	.0	.0	11.8	3	17.6
19/19	.0	.0	.0	.0	5.9	.0	.0	.0	1	5.9
10/14	.0	.0	.0	.0	.0	5.9	.0	.0	1	5.9
TOTAL	.0	.0	.0	1	2	1	5	.0	17	100.0
PCT	.0	.0	.0	5.9	11.8	5.9	29.4	47.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
37/34	8.8	14.7	.0	.0	11.8	.0	5.9	5.9	.0	5.9
29/29	17.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
20/24	.0	.0	.0	.0	.0	.0	4.4	13.2	.0	.0
19/19	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
10/14	4.4	.0	.0	.0	.0	.0	.0	1.5	.0	.0
TOTAL	36.8	14.7	.0	.0	11.8	.0	10.3	20.6	.0	5.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	43	42	37	28	12	8	8	27.3	130
06009	46	45	37	29	18	15	12	28.7	118
12015	40	39	36	28	16	10	10	26.3	147
18021	37	36	36	27	14	9	9	23.6	91
TOT	46	39	37	28	19	9	8	27.0	506

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	14.3	42.9	42.9	89	7
06009	.0	25.0	25.0	.0	25.0	25.0	76	4
12015	.0	20.0	20.0	.0	20.0	40.0	82	5
18021	.0	.0	.0	.0	.0	100.0	100	2
TOT	0	2	2	1	5	8	85	18

PERIOD: (PRIMARY) 1933-1966
(OVER-ALL) 1904-1966

FEBRUARY

AREA 0027 VLADIVOSTOK
41.7N 130.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FDG	NO FDG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3		2	.0	.6
9/10	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0		2	.0	.6
7/8	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0		4	.0	1.3
5	.0	.0	.0	.0	.0	.0	.0	.9	1.3	.0		7	.0	2.2
4	.0	.0	.0	.0	.0	.0	.6	2.2	1.3	.0		13	.0	4.1
2	.0	.0	.0	.0	.0	.0	1.9	5.4	.6	.0		25	.3	7.6
0	.0	.0	.0	.0	.0	1.9	7.9	4.7	.6	.0		48	.9	14.2
-1	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0		1	.0	.3
-2	.0	.0	.0	.0	.0	3.5	3.8	1.3	.0	.0		27	.3	8.2
-3	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0		2	.0	.6
-4	.0	.0	.0	.0	.0	10.1	4.7	.6	.0	.0		49	.9	14.6
-5	.0	.0	.0	.0	1.9	5.7	1.9	.0	.3	.0		31	.6	9.2
-6	.0	.0	.0	.0	.0	.6	.3	.0	.0	.0		3	.0	.9
-7/-8	.0	.0	.0	.0	5.1	3.2	.6	.0	.0	.0		28	.0	8.9
-9/-10	.0	.0	.0	.0	.9	4.1	3.2	.0	.0	.0		26	.3	7.9
-11/-13	.0	.0	.3	3.8	2.5	2.2	.0	.0	.0	.0		28	.6	8.2
-14/-16	.0	.3	.9	.6	.6	.0	.0	.0	.0	.0		8	.0	2.5
-17/-19	.0	.0	.9	.9	.6	.0	.0	.0	.0	.0		8	.0	2.5
-20/-22	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0		2	.0	.6
-23/-25	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0		2	.0	.6
TOTAL	2	1	9	20	47	96	71	19	1	1		316	4.1	95.9
PCT	.6	.3	2.8	6.3	14.9	30.4	22.5	15.3	6.0	.3	.3	100.0		

PERIOD: (OVER-ALL) 1963-1966

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	15.6	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	14.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.3	17.2	18.8	10.9	.0	53.1	.0	.0	1.6	.0	.0	.0	1.6

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1966

FEBRUARY

AREA 0027 VLADIVOSTOK
41.7N 130.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	4.7	.0	.0	.0	4.7	.0	6.3	1.6	.0	.0	.0	7.8	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	6.3	1.6	.0	.0	.0	7.8	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.6	1.6	.0	17.2	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	1.6	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0	.0	6.3	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	4.7	.0	.0	.0	4.7	.0	6.3	7.8	25.0	1.6	.0	40.6	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	6.3	.0	.0	.0	6.3	.0
1-2	.0	6.3	12.5	.0	.0	.0	18.8	.0
3-4	.0	6.3	12.5	6.3	.0	.0	25.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	25.0	6.3	.0	31.3	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	6.3	6.3	.0	12.5	.0
12	.0	.0	.0	6.3	.0	.0	6.3	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	12.5	31.3	43.8	12.5	.0	100.0	16

PERIOD: (OVER-ALL) 1964-1966

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	5.3	15.8	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
6-7	.0	.0	.0	5.3	5.3	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
12-13	.0	.0	.0	.0	.0	.0	15.8	15.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
INDET	5.3	10.3	5.3	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOTAL	1	3	4	1	3	0	3	4	0	0	0	0	0	0	0	0	0	0	0	3	
PCT	5.3	15.8	21.1	5.3	15.8	.0	15.8	21.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1933-1967
(OVER-ALL) 1879-1967

MARCH

AREA 0027 VLADIVOSTOK
41.6N 130.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.5	.0	.0	.0	5.9	.0	.0	6.5	.0	.0	4.6	.0	1.1	.0	87.8
NE	.9	.0	.0	.0	8.7	.0	.0	9.6	.0	.0	7.0	.0	.0	.0	83.5
E	.0	.0	.0	.0	10.7	.0	.0	10.7	.0	.0	12.0	.0	.0	.0	77.3
SE	.0	.0	.0	.0	7.3	.0	.0	7.3	.0	.0	2.1	.0	.0	.0	90.6
S	.0	.0	.0	.0	2.6	.0	.0	2.6	.0	.0	2.0	.0	.0	.0	95.4
SW	.0	.0	.0	.0	6.1	.0	.0	6.1	.0	.0	3.0	.0	.0	.0	90.9
W	1.9	.0	.0	.0	7.4	.0	.0	7.4	.0	.0	3.7	.0	.0	.0	88.9
NW	.0	.0	.0	.0	4.0	.0	.0	4.0	.0	.0	3.7	.0	.0	.0	92.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	90.0
TOT PCT	.4	.0	.0	.0	5.8	.0	.0	6.0	.0	.0	4.5	.0	.2	.0	89.3
TOT OBS:	553														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.6	.0	.0	.0	6.3	.0	.0	6.3	.0	.0	5.0	.0	.0	.0	88.7
06005	.0	.0	.0	.0	5.7	.0	.0	5.7	.0	.0	2.9	.0	.0	.0	91.4
12015	.8	.0	.0	.0	3.0	.0	.0	3.8	.0	.0	2.3	.0	.0	.0	93.9
18021	.0	.0	.0	.0	7.3	.0	.0	7.3	.0	.0	8.0	.0	.7	.0	83.9
TOT PCT	.4	.0	.0	.0	5.6	.0	.0	5.6	.0	.0	4.6	.0	.2	.0	89.4
TOT OBS:	568														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	1.6	8.6	5.1	2.3	.0	.0	17.6	11.2	7.8	20.3	31.7	13.1	25.0	13.4	28.6	19.0	
NE	1.1	5.2	3.1	.5	.0	.0	10.0	9.7	9.4	9.5	21.2	10.0	14.8	7.9	8.6	10.1	
E	2.0	3.2	1.1	.0	.0	.0	6.3	6.4	6.3	13.7	.0	2.7	3.7	3.1	5.7	7.0	
SE	1.5	5.9	.9	.1	.0	.0	8.0	6.2	17.2	5.2	3.8	11.2	3.7	5.8	5.7	6.2	
S	2.8	8.3	1.9	.5	.0	.0	13.6	8.0	7.8	12.7	15.4	27.3	3.7	13.0	8.6	5.8	
SW	2.1	7.2	2.3	.1	.1	.0	11.7	7.8	7.8	6.9	9.6	14.6	7.4	15.4	11.4	12.8	
W	1.7	5.5	2.4	.7	.0	.0	10.3	8.8	20.3	5.2	13.5	4.2	14.8	16.8	7.1	12.0	
NW	.8	8.0	6.5	3.4	.1	.0	18.9	13.4	23.4	21.2	1.0	13.1	23.1	20.5	21.4	20.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.5						3.5	.0	.0	1.3	3.8	3.8	3.7	4.1	2.9	6.2	
TOT OBS	116	353	155	52	2	0	678	9.3		32	153	26	130	27	146	35	
TOT PCT	17.1	52.1	22.9	7	.3	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+	00 03				06 09	12 15	18 21		
N	6.5	6.6	4.2	.4	.0	17.6	11.2	18.1	16.2	15.2	21.0			
NE	3.8	4.9	1.3	.0	.0	10.0	9.7	9.5	11.9	9.0	9.8			
E	4.4	1.4	.5	.0	.0	6.3	6.4	12.4	2.2	3.2	6.7			
SE	5.3	2.6	.1	.0	.0	8.0	6.2	10.5	9.9	5.5	6.1			
S	6.2	6.0	1.3	.0	.0	13.6	8.0	11.9	25.3	11.6	6.4			
SW	6.5	4.5	.6	.1	.0	11.7	7.8	7.0	13.8	14.2	12.5			
W	5.3	3.7	1.3	.1	.0	10.3	8.8	7.8	5.8	16.3	11.0			
NW	4.8	7.5	3.3	1.1	.1	18.9	13.4	21.6	11.1	21.0	21.0			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	3.5					3.5	.0	1.1	3.8	4.0	5.5			
TOT OBS	314	252	99	12	1	678	9.3	185	156	173	164			
TOT PCT	46.3	37.2	14.6	1.8	.1	100.0		100.0	100.0	100.0	100.0			

PERIOD: (PRIMARY) 1934-1967
(OVER-ALL) 1879-1967

MARCH

AREA 0027 VLADIVOSTOK
41.6N 130.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0603	1.1	14.1	55.1	21.6	7.0	1.1	.0	9.6	100.0	185
0609	3.8	9.0	55.8	21.8	9.6	.0	.0	9.8	100.0	156
12015	4.0	16.2	52.6	19.7	7.5	.0	.0	8.6	100.0	173
18021	5.5	14.6	44.5	28.7	6.7	.0	.0	9.1	100.0	164
TOT	74	92	353	155	52	2	0	9.3		678
PCT	3.5	13.6	52.1	22.9	7.7	.3	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	16.1	.0	.0	1.8		.9
NE	7.1	.0	2.4	.0		2.5
E	2.4	.0	2.4	.0		2.5
SE	1.2	2.4	2.4	2.4		9.4
S	.0	.0	.0	.0		.0
SW	.0	.0	.0	.0		.0
W	15.5	.0	.0	4.8		1.8
NW	24.4	2.4	4.8	.6		1.4
VAR	.0	.0	.0	.0		.0
CALM	7.1	.0	.0	.0		1.0
TOT OBS	31	2	5	4	42	1.8
TOT PCT	73.8	4.8	11.4	9.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8		TOTAL OBS
											ANY HGT	OBS	
N	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	16.1	
NE	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	7.1	
E	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	2.4	
SE	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	6.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	17.9	
NW	.0	.0	.0	.0	.0	.6	2.4	.0	.0	.0	.0	29.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	
TOT OBS	0	0	0	0	2	1	3	0	0	0	0	36	42
TOT PCT	.0	.0	.0	.0	4.8	2.4	7.1	.0	.0	.0	.0	85.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	2.3	4.5	6.8	6.8	6.8	6.8	6.8	6.8
= OR >2000	4.5	6.8	9.1	9.1	9.1	9.1	9.1	9.1
= OR >1000	4.5	9.1	11.4	11.4	13.6	13.6	13.6	13.6
= OR >600	4.5	9.1	11.4	11.4	13.6	13.6	13.6	13.6
= OR >300	4.5	9.1	11.4	11.4	13.6	13.6	13.6	13.6
= OR >150	4.5	9.1	11.4	11.4	13.6	13.6	13.6	13.6
= OR >0	4.5	9.1	11.4	11.4	13.6	13.6	13.6	13.6
TOTAL	2	4	5	5	6	6	6	6

TOTAL NUMBER OF OBS: 44

PCT FREQ NH <5/8: 86.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
66.7	6.3	3.2	.0	4.8	4.8	6.3	.0	7.9	.0	63

PERIOD: (PRIMARY) 1933-1967
(OVER-ALL) 1879-1967

MARCH

AREA 0027 VLADIVOSTOK
41.6N 130.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.2	.3	.0	.0	.0	.2	.5	.0	.0	1.4	
	NO PCP	.2	.1	.5	.2	.1	.0	.4	.0	.0	.0	1.4	
	TOT %	.3	.3	1.1	.2	.1	.0	.5	.5	.0	.0	2.9	
1/2<1	PCP	.2	.3	.1	.1	.0	.1	.3	.1	.0	.0	1.1	
	NO PCP	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.6	.7	.1	.1	.0	.1	.3	.1	.0	.0	1.8	
1<2	PCP	.2	.3	.0	.0	.2	.0	.1	.2	.0	.0	.9	
	NO PCP	.2	.1	.1	.0	.0	.0	.0	.0	.0	.2	.5	
	TOT %	.4	.4	.1	.0	.2	.0	.1	.2	.0	.2	1.4	
2<5	PCP	.9	.2	.1	.3	.1	.3	.2	.0	.0	.0	1.6	
	NO PCP	.2	.0	.0	.0	.2	.0	.0	.9	.0	.0	1.3	
	TOT %	.8	.2	.1	.3	.3	.3	.2	.9	.0	.0	2.9	
5<10	PCP	.1	.1	.0	.1	.1	.4	.0	.0	.0	.0	.7	
	NO PCP	2.9	2.4	.9	1.6	2.8	3.0	1.4	2.2	.0	.2	17.4	
	TOT %	3.0	2.4	.9	1.7	2.9	3.3	1.4	2.2	.0	.2	18.1	
10+	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	11.8	8.5	4.5	6.2	10.4	8.2	7.3	14.5	.0	3.3	72.7	
	TOT %	11.8	8.5	4.5	6.4	10.4	8.2	7.3	14.5	.0	3.3	72.9	
TOT OBS													353
TOT PCT		16.7	10.4	6.8	8.7	13.8	11.9	9.8	18.3	.0	3.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.0	.3	.0	.0	.0	.2	.0	.0	.0	.6	
	4-10	.2	.3	.4	.2	.2	.0	.3	.3	.0	.0	1.9	
	11-21	.0	.1	.2	.0	.0	.0	.2	.0	.0	.0	.5	
	22+	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	TOT %	.4	.4	1.0	.2	.2	.0	.6	.4	.0	.0	3.2	
1/2<1	0-3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	4-10	.2	.2	.1	.2	.2	.1	.2	.1	.0	.0	1.3	
	11-21	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	TOT %	.6	.6	.1	.2	.2	.2	.2	.2	.0	.0	2.4	
1<2	0-3	.1	.1	.0	.0	.2	.2	.0	.0	.0	.2	.6	
	4-10	.3	.4	.2	.0	.5	.0	.2	.1	.0	.0	1.6	
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	22+	.2	.1	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	TOT %	.6	.6	.2	.0	.6	.2	.2	.2	.0	.2	2.7	
2<5	0-3	.1	.0	.2	.1	.5	.0	.0	.2	.0	.2	1.3	
	4-10	.8	.6	.5	.4	.2	.2	.2	.4	.0	.0	3.4	
	11-21	.8	.3	.0	.0	.1	.2	.2	.9	.0	.0	2.1	
	22+	.2	.0	.0	.0	.0	.0	.0	.3	.0	.0	.5	
	TOT %	1.8	.9	.7	.5	.8	.5	.4	1.5	.0	.2	7.2	
5<10	0-3	.2	.5	.5	.3	.5	.6	.5	.1	.0	.2	3.4	
	4-10	1.6	1.3	.2	1.1	1.8	1.5	.5	.8	.0	.0	8.8	
	11-21	.5	.2	.1	.2	.3	.8	.2	.8	.0	.0	3.2	
	22+	.3	.2	.0	.0	.0	.0	.0	.3	.0	.0	.8	
	TOT %	2.7	2.2	.8	1.7	2.6	3.0	1.2	2.9	.0	.2	16.2	
10+	0-3	.7	.3	1.1	1.0	1.7	1.3	.7	.5	.0	3.4	10.8	
	4-10	3.5	2.7	2.2	4.5	5.7	5.1	4.2	6.7	.0	.0	38.6	
	11-21	3.9	2.5	.7	.2	1.6	1.2	1.6	4.9	.0	.0	18.5	
	22+	.7	.3	.0	.2	.6	.1	.5	2.0	.0	.0	4.3	
	TOT %	10.8	5.9	4.0	5.9	9.6	7.7	7.0	14.1	.0	3.4	68.2	
TOT OBS													623
TOT PCT		16.9	10.4	6.7	8.4	14.0	11.6	9.7	18.5	.0	3.9	100.0	

MARCH

PERIOD: (PRIMARY) 1933-1967
(OVER-ALL) 1879-1967AREA 0027 VLADIVOSTOK
41.6N 130.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	5.3	.0	15.8	.0	.0	.0	21.1	78.9	19
06009	.0	.0	.0	.0	7.1	7.1	.0	.0	.0	.0	14.3	85.7	14
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	10
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	14
TOT	0	0	0	0	7	1	3	0	0	0	6	51	57
PCT	.0	.0	.0	.0	2.5	1.8	5.3	.0	.0	.0	10.5	89.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.4	3.4	1.1	5.1	12.4	74.6	177
06009	2.0	1.3	3.4	7.2	11.8	73.7	152
12015	3.8	1.3	3.8	5.8	19.9	65.4	156
18021	3.9	3.3	2.0	10.5	20.9	59.5	153
TOT	21	15	17	45	103	437	638
PCT	3.3	2.4	2.7	7.1	16.1	68.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	6.3	18.8	12.5	68.8	16
06009	.0	.0	.0	20.0	80.0	10
12015	.0	.0	.0	.0	100.0	8
18021	.0	.0	10.0	.0	90.0	10
TOT	0	1	4	4	36	44
PCT	.0	2.3	9.1	9.1	81.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	1.1	.0	1.1	.0	.0	2	2.1
40/44	.0	1.1	1.1	1.1	1.1	4.2	2.1	1.1	11	11.6
35/39	.0	.0	4.2	4.2	6.3	7.4	4.2	.0	25	26.3
30/34	.0	1.1	2.1	7.4	12.6	10.5	8.4	8.4	48	50.5
25/29	.0	.0	.0	1.1	2.1	1.1	.0	1.1	5	5.3
20/24	.0	.0	1.1	.0	1.1	.0	1.1	.0	3	3.2
15/19	.0	.0	.0	.0	1.1	.0	.0	.0	1	1.1
TOTAL	0	2	8	14	23	23	15	10	95	100.0
PCT	.0	2.1	8.4	14.7	24.2	24.2	15.8	10.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	1.1	.5	.5	.0	.0	.0
.0	1.1	.0	.0	3.2	3.2	2.6	1.6	.0	.0
3.2	4.2	1.6	4.2	5.3	2.1	4.2	1.6	.0	.0
13.2	11.6	4.7	3.2	3.2	4.2	5.3	3.2	.0	2.1
.8	.0	1.1	1.1	.0	.5	.5	1.3	.0	.0
.0	.0	.0	.0	.0	.0	1.1	2.1	.0	.0
1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.2	16.8	7.4	8.4	12.6	10.5	14.2	9.7	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	52	51	45	36	19	12	12	33.8	188
06009	54	53	46	36	24	18	18	35.0	155
12015	50	48	40	34	23	18	16	33.1	175
18021	50	49	43	32	21	13	12	32.5	164
TOT	54	50	45	34	21	12	12	33.6	682

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	22.2	25.9	14.8	22.2	14.8	72	27
06009	.0	24.0	36.0	16.0	24.0	.0	89	25
12015	.0	30.8	38.5	15.4	.0	15.4	87	13
18021	.0	25.8	6.5	45.2	9.7	12.9	71	31
TOT	0	24	23	24	15	10	70	96

PERIOD: (PRIMARY) 1933-1967
(OVER-ALL) 1879-1967

MARCH

AREA 0027 VLADIVOSTOK
41.0N 130.8E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
16/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.8	.2	6	.0	1.2
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.9	.2	.2	13	.2	2.5
9/10	.0	.0	.0	.0	.0	.0	.0	.6	.4	1.4	.2	.0	13	.4	2.3
7/8	.0	.0	.0	.0	.0	.0	.0	1.2	.8	1.0	.0	.0	15	.0	3.1
6	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	2	.0	.4
5	.0	.0	.0	.0	.0	.0	.6	2.3	1.6	.6	.0	.0	25	.4	4.7
4	.0	.0	.0	.0	.0	.8	4.5	4.1	1.4	.2	.2	.0	55	.4	10.9
3	.0	.0	.0	.0	.0	.0	.2	.8	.2	.0	.0	.0	6	.0	1.2
2	.0	.0	.0	.0	.0	2.1	6.4	3.7	.0	.0	.2	.0	60	.8	11.5
1	.0	.0	.0	.0	.0	.2	.4	.6	.0	.0	.0	.0	6	.0	1.2
0	.0	.0	.0	.0	1.2	5.2	11.5	2.1	.0	.0	.0	.0	97	.8	19.2
-1	.0	.0	.0	.0	.0	.4	1.0	.2	.0	.0	.0	.0	8	.0	1.6
-2	.0	.0	.0	.0	3.3	6.6	4.3	.4	.2	.0	.0	.0	72	.4	14.4
-3	.0	.0	.0	.0	.6	.6	1.4	.0	.2	.0	.0	.0	14	.0	2.9
-4	.0	.0	.0	.0	2.5	3.9	1.0	.0	.2	.0	.0	.0	37	.4	7.2
-5	.0	.0	.0	.0	1.6	1.9	.8	.2	.0	.0	.0	.0	22	.2	4.3
-6	.0	.0	.0	.4	.0	.2	.2	.0	.0	.0	.0	.0	4	.0	.6
-7/-8	.0	.0	.0	.8	.4	.4	.2	.4	.0	.0	.0	.0	11	.0	2.3
-9/-10	.0	.0	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	5	.2	.8
-11/-13	.0	.0	.8	.2	.2	.2	.2	.0	.0	.0	.0	.0	8	.0	1.6
-14/-16	.2	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	3	.0	.6
-17/-19	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.2	.2
TOTAL	2	1	6	11	48	110	161	82	27	26	2	485	22	463	
PCT	.4	.2	1.2	2.3	9.9	22.7	33.2	16.9	5.6	5.4	1.9	.4	100.0	4.5	95.5

PERIOD: (OVER-ALL) 1963-1967

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	4.2	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.1	.0	.0	.0	.0	3.1	.0	4.2	4.2	.0	.0	.0	8.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	3.1	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.3	.0	3.1	.0	.0	10.4	.0	4.2	4.2	.0	.0	.0	8.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	4.2	.0	.0	.0	4.2	.0	8.3	.0	.0	.0	.0	8.3
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	.0	.0	4.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	4.2	.0	.0	.0	4.2	.0	8.3	4.2	.0	.0	.0	12.5

PERIOD: (OVER-ALL) 1963-1967

MARCH
TABLE 18 (CONT)AREA 0027 VLADIVOSTOK
41.6N 130.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	4.2
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	4.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	4.2	.0	.0	.0	.0	.0	4.2	.0	12.5	.0	.0	.0	.0	.0	12.5	
1-2	.0	.0	8.3	.0	.0	.0	.0	8.3	.0	1.0	8.3	.0	.0	.0	.0	9.4	
3-4	.0	.0	4.2	.0	.0	.0	.0	4.2	.0	.0	4.2	.0	.0	.0	.0	4.2	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	4.2	.0	.0	.0	8.3	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	.0	.0	4.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.2	12.5	.0	.0	.0	.0	16.7	.0	12.5	16.7	9.4	.0	.0	.0	39.6	95.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.2	33.3	4.2	.0	.0	.0	41.7	
1-2	.0	8.3	25.0	.0	.0	.0	33.3	
3-4	.0	.0	8.3	.0	.0	.0	8.3	
5-6	.0	.0	4.2	4.2	.0	.0	8.3	
7	.0	.0	.0	4.2	.0	.0	4.2	
8-9	.0	.0	.0	4.2	.0	.0	4.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.2	41.7	41.7	12.5	.0	.0	100.0	24

PERIOD: (OVER-ALL) 1954-1967

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.3	16.7	6.7	3.3	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	3
6-7	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
8-9	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
13-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDENT	40.0	3.3	3.3	3.3	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	1
TOTAL	13	10	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	30	2
PCT	43.3	33.3	10.0	6.7	3.3	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1933-1969
(OVER-ALL) 1880-1969

APRIL

AREA 0027 VLADIVOSTOK
41.6N 130.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THOR LTNG	FOG W/ PCPN	FOG W/ PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.8	.0	.0	.0	1.3	.0	.0	7.1	.0	.0	13.0	.0	3.9	.0	76.0
NE	19.8	.0	.0	.0	1.8	.0	.0	21.6	.0	.0	24.3	.0	.0	.0	54.1
E	6.3	.0	.0	.0	.0	.0	.0	6.3	.0	.0	34.4	.0	.0	.0	59.4
SE	2.3	.0	.0	.0	.0	.0	.0	2.3	.0	.0	26.3	.0	.0	.0	71.4
S	2.9	.0	.0	.0	.0	.0	.0	2.9	.0	.0	21.4	.0	.0	.0	73.7
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.7	.0	.0	.0	89.3
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.7	.0	2.1	.0	85.2
NW	1.6	.0	.0	.0	.0	.0	.0	1.6	.0	.0	4.8	.0	.0	.0	93.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.0	.0	8.0	.0	.0	.0	.0	12.0	.0	.0	36.0	.0	.0	.0	52.0
TOT PCT	5.0	.0	.4	.0	.4	.0	.0	5.4	.0	.0	18.0	.0	.8	.0	75.8
TOT OBS:	499														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.2	.0	.7	.0	.7	.0	.0	2.9	.0	.0	19.1	.0	.7	.0	77.2
06009	5.0	.0	.8	.0	1.7	.0	.0	6.7	.0	.0	11.7	.0	.0	.0	81.7
12015	5.4	.0	.0	.0	.0	.0	.0	5.4	.0	.0	18.1	.0	1.3	.0	75.2
18021	8.5	.0	.0	.0	.0	.0	.0	8.5	.0	.0	23.6	.0	.9	.0	67.0
TOT PCT TOT OBS:	5.1	.0	.4	.0	.6	.0	.0	5.7	.0	.0	18.0	.0	.8	.0	75.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.2	8.7	3.1	.4	.2	.0		14.6	8.5		15.0	13.6	13.8	17.1	5.4	12.0	21.4	18.4
NE	2.2	7.4	1.2	.3	.0	.0		11.1	7.2		1.7	14.6	10.3	9.5	7.1	8.9	14.3	15.0
E	1.6	4.6	.9	.1	.0	.0		6.7	6.0		11.7	7.1	.0	7.2	12.5	7.5	.0	4.9
SE	2.2	3.1	1.0	.1	.0	.0		8.4	6.3		5.0	8.9	12.1	9.0	2.7	8.9	10.7	7.3
S	4.3	10.3	2.6	.2	.0	.0		17.6	6.9		11.7	19.6	19.0	24.8	18.8	17.3	12.5	9.7
SW	1.7	8.9	3.1	.2	.0	.0		13.9	8.0		12.5	11.8	29.3	12.6	12.5	16.8	7.1	11.2
W	1.7	6.8	1.6	.3	.0	.0		10.4	7.7		17.5	6.4	8.6	6.1	33.9	11.5	14.3	11.7
NW	1.7	6.1	4.6	.2	.0	.0		12.6	9.3		18.3	11.4	6.9	9.5	7.1	14.2	16.1	19.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8							4.8	.0		6.7	6.4	.0	6.3	.0	2.8	3.6	6.8
TOT OBS	146	376	114	11	1	0	648		7.3		30	140	29	111	28	179	28	103
TOT PCT	22.5	58.0	17.8	1.7	.2	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	6.7	6.6	1.0	.3	.0		14.6	8.5	13.8	16.4	11.1	19.1	
NE	6.3	4.2	.3	.3	.0		11.1	7.2	12.4	9.6	8.7	14.9	
E	4.9	1.5	.3	.0	.0		6.7	6.0	7.9	5.7	8.2	3.8	
SE	5.4	2.8	.2	.0	.0		8.4	6.3	8.2	9.6	8.1	8.0	
S	10.0	6.8	.8	.0	.0		17.6	6.9	18.2	23.6	17.3	10.3	
SW	7.2	5.4	1.2	.0	.0		13.9	8.0	11.9	16.1	16.2	10.3	
W	5.0	4.9	.5	.0	.0		10.4	7.7	8.4	5.0	14.5	12.2	
NW	4.4	7.0	1.0	.2	.0		12.6	9.3	12.6	8.9	13.3	15.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.8						4.8	.0	6.5	5.0	2.4	6.1	
TOT OBS	334	254	35	5	0	648		7.3	170	140	207	131	
TOT PCT	51.6	39.2	5.4	.8	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1973-1989
(OVER-ALL) 1980-1989

APRIL

AREA 0027 VLADIVOSTOK
41.6N 130.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	6.5	16.5	56.5	19.4	1.2	.0	.0	.0	7.4	100.0	170
0600Z	5.0	14.3	64.3	15.0	.7	.7	.0	.0	7.0	100.0	140
1201Z	2.4	14.0	59.4	22.2	1.9	.0	.0	.0	8.0	100.0	207
1802Z	6.1	29.0	51.1	10.7	3.1	.0	.0	.0	6.1	100.0	131
YDT	31	115	376	114	11	1	0	7.3			648
PCT	4.8	17.7	58.0	17.6	1.7	.2	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD COVER	MEAN CLOUD COVER
N	8.3	4.6	3.7	13.9	5.1	
NE	2.8	.9	.0	.9	2.4	
E	3.6	.0	.0	.0	.0	
SE	6.0	3.7	.0	1.9	2.2	
S	6.9	.0	3.7	.0	2.6	
SW	1.9	.0	2.3	1.9	5.6	
W	11.1	1.9	1.4	.0	1.2	
NW	3.6	.0	7.4	1.4	4.6	
VAR	.0	.0	.0	.0	.0	
CALM	1.9	.0	.0	.0	.0	
TOT OBS	27	6	10	11	54	3.4
TOT PCT	50.0	11.1	18.5	20.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NM >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.9	5.6	.0	.0	.0	.0	24.1	
NE	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	3.7	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	
SE	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.7	
S	.0	.0	.0	.0	.0	1.9	.0	1.9	.0	.0	6.9	
SW	1.9	.0	.0	.0	.0	.5	1.9	.0	.0	.0	1.9	
W	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	13.0	
NW	.0	.0	.0	.0	1.9	1.9	1.9	.0	.0	.0	9.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
TOT OBS	2	0	0	0	2	6	2	1	0	0	41	54
TOT PCT	3.7	.0	.0	.0	3.7	11.1	3.7	1.9	.0	.0	75.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >4500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3000	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >2000	3.5	5.3	5.3	5.3	5.3	5.3	5.3	5.3
= OR >1000	5.3	14.0	17.5	17.5	17.5	17.5	17.5	17.5
= OR >600	5.3	17.5	21.1	21.1	21.1	21.1	21.1	21.1
= OR >300	5.3	17.5	21.1	21.1	21.1	21.1	21.1	21.1
= OR >150	5.3	17.5	21.1	21.1	21.1	21.1	21.1	21.1
= OR >0	5.3	17.5	21.1	21.1	21.1	22.8	22.8	24.6
TOTAL	3	10	12	12	12	13	13	14

TOTAL NUMBER OF OBS: 57

PCT FREQ NM <5/8: 75.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	39.3	8.1	6.8	4.1	2.7	4.1	4.1	3.4	2.7	74

PERIOD: (PRIMARY) 1938-1969
(OVER-ALL) 1880-1969

APRIL

AREA 0027 VLADIVOSTOK
41.6N 130.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2		
	NO PCP	.9	1.3	.9	.8	1.6	.7	.7	.1	.0	.6	7.3		
	TOT %	.9	1.3	.9	.8	1.6	.7	.7	.1	.0	.8	7.5		
1/2<1	PCP	.1	.8	.1	.0	.2	.0	.0	.0	.0	.4	1.6		
	NO PCP	.4	.2	.1	.2	.1	.2	.2	.0	.0	.2	1.6		
	TOT %	.5	1.0	.2	.2	.3	.2	.2	.0	.0	.6	3.3		
1<2	PCP	.3	.9	.0	.1	.1	.0	.0	.0	.0	.0	1.4		
	NO PCP	.6	.2	.4	.2	.2	.0	.4	.2	.0	.2	2.4		
	TOT %	.9	1.1	.4	.3	.3	.0	.4	.2	.0	.2	3.9		
2<5	PCP	.3	.5	.3	.1	.0	.0	.0	.0	.0	.0	1.2		
	NO PCP	.0	.3	.3	.6	.8	.2	.1	.5	.0	.6	3.5		
	TOT %	.3	.8	.6	.7	.8	.2	.1	.5	.0	.6	4.7		
5<10	PCP	.4	.2	.0	.0	.2	.0	.0	.2	.0	.0	1.0		
	NO PCP	4.3	2.6	1.2	2.1	5.2	4.0	3.0	3.2	.0	1.2	26.8		
	TOT %	4.7	2.8	1.2	2.1	5.4	4.0	3.0	3.4	.0	1.2	27.8		
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	8.3	3.8	2.6	4.6	9.1	9.1	5.2	8.4	.0	1.6	52.8		
	TOT %	8.3	3.8	2.6	4.6	9.1	9.1	5.2	8.4	.0	1.6	52.8		
TOT OBS														492
TOT PCT		15.2	10.9	6.0	8.8	17.5	14.3	9.6	12.6	.0	5.1	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.3	.3	.3	.1	.7	.0	.0	.1	.0	.7	2.4	
	4-10	.2	1.0	.7	.6	.7	.3	.4	.0	.0	.0	3.8	
	11-21	.0	.0	.0	.0	.1	.3	.2	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	TOT %	.4	1.3	1.0	.7	1.5	.7	.6	.1	.0	.7	7.0	
1/2<1	0-3	.2	.2	.0	.2	.0	.0	.0	.0	.0	.5	1.0	
	4-10	.4	.4	.2	.3	.3	.2	.2	.0	.0	.0	1.9	
	11-21	.1	.3	.1	.0	.2	.0	.0	.1	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.7	.9	.3	.4	.4	.2	.2	.1	.0	.5	3.7	
1<2	0-3	.2	.5	.2	.0	.2	.0	.3	.2	.0	.3	1.9	
	4-10	1.0	.7	.2	.1	.8	.2	.2	.2	.0	.0	3.3	
	11-21	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.2	1.2	.3	.3	1.0	.2	.5	.3	.0	.3	5.6	
2<5	0-3	.1	.3	.3	.3	.6	.3	.3	.3	.0	.9	3.3	
	4-10	.6	.7	.6	.1	1.0	.4	.3	.7	.0	.0	4.5	
	11-21	.0	.1	.1	.3	.2	.3	.0	.3	.0	.0	1.4	
	22+	.2	.2	.1	.1	.0	.0	.0	.2	.0	.7	.7	
	TOT %	.9	1.2	1.1	.8	1.8	1.0	.7	1.5	.0	.9	9.9	
5<10	0-3	1.0	.1	.5	.7	1.1	.3	.3	.8	.0	1.0	5.7	
	4-10	2.1	1.9	.8	1.0	2.9	2.4	2.3	1.2	.0	.0	14.6	
	11-21	.9	.4	.2	.2	.4	.8	.8	1.1	.0	.0	4.2	
	22+	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.3	
	TOT %	4.1	2.4	1.5	1.9	4.6	3.4	2.7	3.1	.0	1.0	24.9	
10+	0-3	.8	.6	.3	.8	1.7	1.3	1.0	.4	.0	1.4	8.4	
	4-10	4.4	2.9	1.9	3.2	5.4	5.8	3.2	4.2	.0	.0	31.0	
	11-21	2.1	.0	.1	.2	1.7	1.4	.4	3.0	.0	.0	8.9	
	22+	.3	.2	.0	.0	.0	.0	.2	.1	.0	.0	.7	
	TOT %	7.6	3.7	2.4	4.1	8.8	8.5	4.8	7.8	.0	1.4	49.0	
TOT OBS													974
TOT PCT		14.9	10.7	6.5	8.3	18.2	14.1	9.5	12.9	.0	4.9	100.0	

APRIL

PERIOD: (PRIMARY) 1933-1969
(OVER-ALL) 1880-1969

AREA 0027 VLADIVOSTOK
41.6N 130.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	3.2	.0	.0	.0	3.2	12.9	3.2	3.2	.0	.0	25.8	74.2	31
06009	4.5	.0	.0	.0	.0	9.1	4.5	.0	.0	.0	18.2	81.8	22
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	11
18021	.0	.0	.0	.0	10.0	10.0	.0	.0	.0	.0	20.0	80.0	10
TOT	2	0	0	0	2	7	2	1	0	0	14	60	74
PCT	2.7	.0	.0	.0	2.7	9.5	2.7	1.4	.0	.0	18.9	81.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	8.2	3.4	2.7	7.5	29.3	49.0	147
06009	4.7	4.7	5.4	6.2	24.0	55.0	129
12015	6.4	2.1	7.4	13.3	25.0	45.7	188
18021	8.9	5.6	6.3	11.3	21.8	46.0	124
TOT	41	22	33	58	148	286	588
PCT	7.0	3.7	4.6	9.9	25.2	48.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	4.2	4.2	16.7	25.0	58.3	24
06009	7.1	7.1	14.3	14.3	71.4	14
12015	.0	.0	10.0	.0	90.0	10
18021	.0	.0	11.1	22.2	66.7	9
TOT	2	2	8	10	39	57
PCT	3.5	3.5	14.0	17.5	68.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	2.1	4.2	.0	.0	.0	3	6.3
45/49	.0	.0	2.1	4.2	10.4	6.3	2.1	2.1	13	27.1
40/44	.0	.0	.0	2.1	12.5	16.7	10.4	2.1	21	43.8
35/39	.0	.0	.0	.0	2.1	.0	6.3	6.3	7	14.6
30/34	.0	.0	.0	.0	.0	.0	.0	2.1	1	2.1
25/29	.0	.0	.0	.0	.0	.0	.0	4.2	2	4.2
20/24	.0	.0	.0	.0	.0	.0	.0	2.1	1	2.1
TOTAL	0	0	1	4	14	11	9	9	48	100.0
PCT	0	.0	2.1	8.3	29.2	22.9	18.8	18.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.0	.0	.0	2.1	.0	1.0	1.0	1.0	.0	.0	.0
5.2	1.0	.0	2.1	5.2	4.2	8.3	1.0	.0	.0	.0
12.5	2.1	2.1	2.1	4.2	7.3	11.5	2.1	.0	.0	.0
1.0	.0	4.2	2.1	2.1	.0	4.2	1.0	.0	.0	.0
.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	4.2	.0	.0	.0
.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.8	5.2	6.3	10.4	11.5	12.5	23.0	9.4	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	61	60	54	43	34	28	27	42.8	171
06009	59	57	52	42	34	30	26	41.7	138
12015	50	48	46	39	32	25	25	39.1	208
18021	50	48	46	37	32	28	23	38.5	136
TOT	61	55	50	40	32	27	23	40.5	653

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.2	29.2	20.8	20.8	25.0	78	24
06009	.0	22.2	27.8	33.3	16.7	.0	70	18
12015	.0	.0	.0	.0	66.7	33.3	91	3
18021	.0	.0	50.0	.0	.0	50.0	79	6
TOT	0	5	15	11	10	10	76	51

APRIL

PERIOD: (PRIMARY) 1933-1969
(OVER-ALL) 1880-1969

TABLE 17

AREA 0027 VLADIVOSTOK
41.6N 130.9EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	2	.0	.4
14/16	.0	.0	.0	.0	.0	.0	.2	.4	.4	.4	.0	7	.4	1.0
11/13	.0	.0	.0	.0	.0	.0	1.2	1.9	.8	.4	.2	22	.6	3.9
9/10	.0	.0	.0	.0	.2	.8	4.4	.0	.0	.0	.0	26	.6	4.8
7/8	.0	.0	.0	.0	.4	3.7	3.5	.4	.4	.0	.0	41	.6	7.9
6	.0	.0	.0	.0	.2	.6	.4	.0	.0	.0	.0	6	.0	1.2
5	.0	.0	.0	.0	.4	5.2	2.3	.0	.0	.0	.0	38	.6	7.3
4	.0	.0	.0	.8	6.2	6.6	2.7	.0	.0	.0	.0	79	2.7	13.7
3	.0	.0	.0	.0	.6	.4	.0	.0	.0	.0	.0	5	.0	1.0
2	.0	.0	.0	3.3	11.4	3.9	1.7	.0	.0	.0	.0	98	5.0	15.4
1	.0	.0	.0	.0	.6	.2	.2	.0	.0	.0	.0	5	.0	1.0
0	.0	.0	.8	5.8	7.7	1.2	1.0	.0	.0	.0	.0	80	4.1	12.4
-1	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	4	.2	.6
-2	.0	.0	.6	2.9	3.1	.4	.2	.0	.0	.0	.0	35	1.5	5.8
-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
-4	.0	.2	.4	.8	.8	.6	.0	.0	.0	.0	.0	14	1.2	1.7
-5	.0	.2	.6	.0	.4	.0	.2	.0	.0	.0	.0	7	.0	1.5
-6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
-7/-8	.0	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	3	.0	.6
-9/-10	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	3	.0	.6
-11/-13	.0	.0	.0	.0	.2	.6	.0	.0	.0	.0	.0	4	.4	.4
TOTAL	1	5	14	69	159	118	87	13	9	5	2	482	87	395
PCT	.7	1.0	2.9	14.3	33.0	24.5	10.0	2.7	1.9	1.0	.4	100.0	18.0	82.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	10.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	10.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	5.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	5.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.0	10.0	5.0	.0	.0	25.0	.0	.0	.0	5.0	.0	.0	5.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	5.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	10.0	5.0	.0	.0	.0	15.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	5.0	.0	.0	.0	.0	.0	5.0	.0	10.0	5.0	.0	.0	.0	15.0

PERIOD: (OVER-ALL) 1963-1969

APRIL

AREA 0027 VLADIVOSTOK
41.0N 130.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	5.0
1-2	.0	5.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	10.0	.0	.0	.0	.0	10.0	.0	.0	5.0	.0	.0	.0	.0	5.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	10.0	.0	.0	.0	.0	15.0	.0	5.0	5.0	.0	.0	.0	.0	10.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	5.0	.0
5-6	.0	.0	10.0	.0	.0	.0	.0	10.0	.0	.0	5.0	.0	.0	.0	.0	5.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	10.0	.0	.0	.0	.0	10.0	.0	.0	10.0	.0	.0	.0	.0	10.0	95.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.0	15.0	.0	.0	.0	.0	25.0	
1-2	.0	15.0	15.0	.0	.0	.0	30.0	
3-4	.0	.0	20.0	5.0	.0	.0	25.0	
5-6	.0	.0	15.0	.0	.0	.0	15.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	5.0	.0	.0	5.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.0	30.0	50.0	10.0	.0	.0	100.0	20

PERIOD: (OVER-ALL) 1952-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	12.2	9.8	4.9	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	3
6-7	.0	.0	9.8	7.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	17.1	22.0	4.9	7.3	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	2
TOTAL	7	14	10	8	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	41	3
PCT	17.1	34.1	24.4	19.5	2.4	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1966
(OVER-ALL) 1960-1966

MAY

AREA 0027 VLADIVOSTOK
41.7N 130.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SNOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	17.6	.0	.0	.0	1.6	.0	.0	17.6	.0	.0	38.5	.0	.0	.0	43.9
NE	7.1	.0	.0	.0	.4	.0	.0	7.1	.4	.0	41.4	.0	.0	.0	51.0
E	8.3	.0	3.7	.0	.0	.0	.0	12.0	1.4	.0	45.6	.0	.0	.0	41.0
SE	7.1	2.4	2.4	.0	.0	.0	.0	11.8	.0	.0	41.8	.0	.0	.0	46.3
S	4.7	.0	2.1	.0	.0	.0	.0	6.8	.0	.0	31.6	.0	1.0	.0	60.6
SW	4.0	.0	1.1	.0	.0	.0	.0	4.0	.0	.0	22.6	.0	2.9	.0	70.6
W	.0	.0	1.9	.0	.0	.0	.0	1.9	.0	.0	15.6	.0	1.3	.0	81.2
NW	.0	.0	.9	.0	.0	.0	.0	.9	.0	.0	21.3	.0	.0	.0	77.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.7	.0	.0	.0	.0	.0	.0	6.7	.0	.0	53.3	.0	.0	.0	40.0
TOT PCT	6.2	.2	1.5	.0	.2	.0	.0	7.7	.2	.0	33.8	.0	.8	.0	57.5
TOT OBS:	482														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	1.5	.8	3.1	.0	.0	.0	.0	5.4	.8	.0	34.6	.0	2.3	.0	56.9
06009	7.6	.0	.0	.0	.0	.0	.0	7.6	.0	.0	37.1	.0	1.0	.0	54.3
12015	7.4	.0	2.7	.0	.0	.0	.0	9.5	.0	.0	26.4	.0	.0	.0	64.2
18021	8.4	.0	.0	.0	.9	.0	.0	8.4	.0	.0	39.3	.0	.0	.0	52.3
TOT PCT TOT OBS:	6.1	.2	1.6	.0	.2	.0	.0	7.8	.2	.0	33.7	.0	.8	.0	57.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	2.8	4.9	1.0	.2	.0	.0		8.9	6.4	12.0	6.2	.0	5.7	2.4	8.3	7.8	20.2		
NE	3.4	6.9	1.1	.3	.0	.0		11.6	6.3	11.0	11.8	5.3	13.1	4.0	9.2	15.5	16.1		
E	3.6	5.0	7.1	.5	.1	.0		11.2	7.4	13.0	13.4	11.8	11.1	10.5	9.3	13.8	10.1		
SE	2.0	6.5	1.9	.3	.1	.0		10.8	7.3	10.0	10.1	19.7	16.0	25.8	8.7	7.8	4.1		
S	5.3	11.9	2.0	.2	.0	.0		19.4	6.5	14.0	24.8	15.8	26.8	21.0	17.2	13.8	9.6		
SW	3.5	10.9	2.4	.1	.0	.0		16.8	6.8	10.0	18.3	21.1	14.5	6.5	24.4	6.0	11.9		
W	2.2	3.7	1.2	.0	.1	.0		7.2	6.9	4.0	1.3	13.2	4.1	16.9	10.5	18.1	7.8		
NW	1.5	3.6	.8	.2	.0	.0		6.0	6.9	18.0	4.9	7.9	1.2	6.5	7.8	3.4	7.3		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	8.2							8.2	.0	8.0	9.2	5.3	7.4	6.5	4.7	13.8	12.8		
TOT OBS	214	353	80	11	2	0	660		6.2		25	153	19	122	31	172	29	109	
TOT PCT	32.4	53.5	12.1	1.7	.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	5.5	3.1	.2	.1	.0		8.9	6.4	7.0	5.0	7.4	17.6
NE	7.6	3.6	.4	.0	.0		11.6	6.3	11.7	12.1	8.4	15.9
E	6.9	3.2	.7	.3	.0		11.2	7.4	13.3	11.2	9.5	10.9
SE	7.1	2.8	.6	.2	.0		10.8	7.3	10.1	16.5	11.3	4.9
S	11.4	7.2	.7	.0	.0		19.4	6.5	23.3	25.4	17.7	10.5
SW	9.5	6.9	.5	.0	.0		16.8	6.8	17.1	15.4	21.7	10.7
W	4.5	2.2	.4	.1	.0		7.2	6.9	1.7	5.3	11.5	10.0
NW	3.9	1.6	.3	.1	.0		6.0	6.9	6.7	2.1	7.6	6.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.2						8.2	.0	9.0	7.1	4.9	13.0
TOT OBS	427	203	25	5	0	660		6.2	178	141	203	138
TOT PCT	64.7	30.8	3.8	.8	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1933-1966
(OVER-ALL) 1880-1966

MAY

AREA 0027 VLADIVOSTOK
41.7N 130.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	9.0	26.4	51.1	11.8	1.7	.0	.0	5.9	100.0	178
0600	7.1	24.1	56.7	10.6	1.4	.0	.0	6.1	100.0	141
1200	4.9	18.7	59.1	15.3	1.5	.5	.0	7.0	100.0	209
1800	13.0	29.7	44.9	9.4	2.2	.7	.0	5.6	100.0	138
TOT	54	140	353	80	11	2	0	6.2		660
PCT	8.2	24.2	53.5	12.1	1.7	.3	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	C-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	6.3		6.0
NE	.5	2.4	.9	5.8		6.4
E	1.4	1.4	1.4	7.2		6.3
SE	1.9	.0	.0	9.1		6.6
S	5.8	.0	.0	17.8		6.0
SW	3.4	.0	1.9	11.1		6.3
W	4.3	3.8	1.9	4.3		4.2
NW	.0	.0	1.9	1.9		7.0
VAR	.0	.0	.0	.0		.0
CALM	3.8	.0	.0	.0		.5
TOT OBS	11	4	4	33	92	5.9
TOT PCT	21.2	7.7	7.7	63.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	290	599	999	1999	3499	4999	6499	7999			
N	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	3.8	1.9	.0	.0	.0	.5	.0	.0	.0	.0	.0	2.9
E	5.3	.0	.0	.0	1.9	1.4	.0	.0	.0	.0	.0	2.9
SE	4.3	.0	1.0	.0	3.8	.0	.0	.0	.0	.0	.0	1.9
S	12.0	.0	1.0	.0	.0	1.9	.0	.0	.0	.0	.0	8.7
SW	4.3	.0	.0	.0	.0	3.8	.0	.0	.0	.0	.0	8.2
W	1.0	.0	1.4	.0	1.9	1.9	.0	.0	.0	.0	.0	8.2
NW	1.4	1.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8
TOT OBS	20	2	2	0	6	5	0	0	0	0	0	32
TOT PCT	38.5	3.8	3.8	.0	7.7	9.6	.0	.0	.0	.0	38.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>DR >6500	.0	.0	.0	.0	.0	.0	.0	.0
>DR >5000	.0	.0	.0	.0	.0	.0	.0	.0
>DR >3500	.0	.0	.0	.0	.0	.0	.0	.0
>DR >2000	3.8	3.8	7.7	9.6	9.6	9.6	9.6	9.6
>DR >1000	9.6	7.7	15.4	17.3	17.3	17.3	17.3	17.3
>DR >600	9.6	7.7	15.4	17.3	17.3	17.3	17.3	17.3
>DR >300	7.7	9.6	17.3	19.2	19.2	21.2	21.2	21.2
>DR >150	7.7	11.5	21.2	23.1	23.1	25.0	25.0	25.0
>DR >0	7.7	11.5	23.1	26.9	30.8	44.2	65.4	65.4
TOTAL	4	6	12	14	19	23	34	34

TOTAL NUMBER OF OBS: 52

PCT FREQ NM <5/8: 34.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
22.8	1.8	1.8	7.0	.0	1.8	7.0	3.5	17.5	36.8	97

PERIOD: (PRIMARY) 1933-1966
(OVER-ALL) 1880-1966

MAY

TABLE 8

AREA 0027 VLADIVOSTOK
41.7N 130.8E

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	.2	.2	.0	.2	.2	.0	.0	.0	.2	1.5	
	NO PCP	2.0	2.0	2.6	2.0	4.1	1.9	.6	.6	.0	1.7	17.5	
	TOT %	2.4	2.2	2.8	2.0	4.3	2.1	.6	.6	.0	1.9	19.0	
1/2<1	PCP	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.6	.9	.9	.0	.3	.4	.1	.1	.0	.2	3.5	
	TOT %	.7	1.1	1.1	.0	.3	.4	.1	.1	.0	.2	4.2	
1<2	PCP	.6	.2	.4	.0	.2	.4	.0	.0	.0	.2	2.1	
	NO PCP	.9	.4	.7	.2	.4	.0	.0	.2	.0	.2	2.5	
	TOT %	.9	.6	1.1	.2	.6	.4	.0	.2	.0	.4	4.6	
2<5	PCP	.1	.1	.0	1.0	.4	.0	.0	.0	.0	.0	1.7	
	NO PCP	.4	1.7	.5	1.1	1.0	.9	.4	.0	.0	1.3	7.3	
	TOT %	.5	1.8	.5	2.2	1.5	.9	.4	.0	.0	1.3	9.0	
5<10	PCP	.4	.0	.4	.0	.2	.0	.0	.0	.0	.0	1.0	
	NO PCP	1.7	1.8	2.1	.8	4.9	4.2	1.6	1.4	.0	.8	19.2	
	TOT %	2.1	1.8	2.5	.8	5.1	4.2	1.6	1.4	.0	.8	20.2	
10+	PCP	.0	.3	.1	.0	.3	.1	.2	.1	.0	.0	1.0	
	NO PCP	3.0	4.8	3.0	3.4	7.7	9.9	5.2	3.3	.0	1.7	42.1	
	TOT %	3.0	5.2	3.1	3.4	8.0	10.0	5.4	3.4	.0	1.7	43.1	
TOT OBS													480
TOT PCT		9.7	12.7	11.2	8.6	19.8	18.0	8.0	5.6	.0	6.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SFD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.7	.3	1.0	.2	1.6	.7	.1	.3	.0	1.7	6.4	
	4-10	.9	1.5	.9	1.6	1.3	.7	.4	.2	.0		7.6	
	11-21	.4	.1	.3	.2	.7	.3	.2	.*	.0		2.2	
	22+	.0	.0	.2	.1	.1	.0	.0	.0	.0		.3	
	TOT %	2.0	1.9	2.4	2.1	3.7	1.7	.7	.5	.0	1.7	16.6	
1/2<1	0-3	.0	.3	.7	.0	.0	.2	.0	.0	.0	.5	1.7	
	4-10	.3	.6	.1	.1	.3	.2	.2	.3	.0		2.0	
	11-21	.3	.2	.2	.0	.1	.1	.0	.0	.0		.8	
	22+	.1	.*	.0	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.7	1.2	.9	.1	.4	.4	.2	.3	.0	.5	4.7	
1<2	0-3	.3	.2	.3	.2	.6	.1	.0	.0	.0	.5	2.2	
	4-10	.5	.8	.9	.3	.4	.7	.0	.2	.0		3.7	
	11-21	.0	.0	.2	.0	.4	.1	.0	.0	.0		.7	
	22+	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.8	1.0	1.5	.4	1.4	.8	.0	.2	.0	.5	6.8	
2<5	0-3	.5	1.2	.2	.6	.6	.3	.3	.4	.0	2.0	6.1	
	4-10	.6	1.0	.8	1.2	1.9	.8	.3	.1	.0		6.6	
	11-21	.0	.0	.2	1.0	.1	.3	.1	.0	.0		1.7	
	22+	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	TOT %	1.1	2.4	1.1	2.8	2.6	1.4	.6	.5	.0	2.0	14.6	
5<10	0-3	.2	.3	.8	.2	1.3	.8	.8	.4	.0	1.0	5.8	
	4-10	1.5	1.2	.8	.7	3.1	2.5	.6	.9	.0		11.4	
	11-21	.1	.3	1.0	.3	.2	.3	.0	.0	.0		2.2	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0		.3	
	TOT %	1.8	1.8	2.7	1.1	4.6	3.8	1.4	1.4	.0	1.0	19.5	
10+	0-3	.9	1.5	.8	.6	1.5	1.3	1.4	.6	.0	1.7	10.3	
	4-10	1.5	2.5	1.7	2.2	4.6	5.9	2.6	2.0	.0		23.1	
	11-21	.0	.2	.3	.4	.8	1.0	.8	.5	.0		4.1	
	22+	.0	.0	.0	.0	.0	.0	.1	.2	.0		.3	
	TOT %	2.5	4.2	2.9	3.2	6.9	8.2	3.0	3.3	.0	1.7	37.8	
TOT OBS													590
TOT PCT		8.9	12.4	11.6	9.7	19.6	16.4	7.8	6.2	.0	7.5	100.0	

MAY

PERIOD: (PRIMARY) 1933-1966
(OVER-ALL) 1880-1966AREA 0027 VLADIVOSTOK
41.7N 130.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	180 289	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	7.1	7.1	.0	.0	21.4	21.4	.0	.0	.0	.0	57.1	42.9	14
06009	71.4	.0	14.3	.0	.0	.0	.0	.0	.0	.0	85.7	14.3	7
12015	40.0	.0	6.7	.0	6.7	6.7	.0	.0	.0	.0	60.0	40.0	15
18021	92.9	5.9	.0	.0	.0	5.9	.0	.0	.0	.0	64.7	35.3	17
TOT	21	2	2	0	4	5	0	0	0	0	34	19	53
PCT	39.6	3.8	3.8	.0	7.5	9.4	.0	.0	.0	.0	64.2	35.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	15.8	3.9	5.3	15.1	20.4	39.5	152
06009	17.2	2.2	11.2	15.7	17.2	36.6	134
12015	11.7	5.9	5.9	14.4	20.2	42.0	188
18021	23.4	6.3	6.3	14.1	18.8	31.3	128
TOT	99	28	42	89	116	228	602
PCT	16.4	4.7	7.0	14.8	19.3	37.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	7.1	28.6	78.6	14.3	7.1	14
06009	71.4	85.7	85.7	.0	14.3	7
12015	40.0	46.7	60.0	6.7	33.3	15
18021	56.3	62.5	87.5	6.3	6.3	16
TOT	21	27	40	4	8	52
PCT	40.4	51.9	76.9	7.7	15.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
54/59	.0	.0	.0	.0	.0	.0	8.7	.0	2	8.7
50/54	.0	.0	.0	.0	.0	4.3	4.3	21.7	7	30.4
45/49	.0	.0	.0	.0	.0	.0	4.3	30.4	8	34.8
40/44	.0	.0	.0	.0	.0	4.3	.0	13.0	4	17.4
35/39	.0	.0	.0	.0	.0	.0	.0	8.7	2	8.7
TOTAL	0	0	0	0	0	2	4	17	23	100.0
PCT	.0	.0	.0	.0	.0	8.7	17.4	73.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	1.1	3.3	.0	.0	4.3	.0	.0	.0	.0
.0	.0	.0	6.5	6.5	15.2	2.2	.0	.0	.0
2.2	2.2	10.9	.0	14.1	3.3	.0	2.2	.0	.0
3.3	5.4	.0	.0	.0	4.3	.0	.0	.0	4.3
.0	.0	.0	8.7	.0	.0	.0	.0	.0	.0
5.4	8.7	14.1	15.2	20.7	27.2	2.2	2.2	.0	4.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	68	64	61	49	41	38	34	50.1	177
06009	66	64	59	50	41	39	37	49.9	141
12015	63	59	54	46	40	36	36	46.6	204
18021	58	55	54	46	41	39	37	46.8	140
TOT	68	63	57	48	41	37	34	48.3	662

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	22.2	22.2	55.6	90	9
06009	.0	.0	.0	.0	.0	100.0	96	2
12015	.0	.0	.0	.0	20.0	80.0	94	5
18021	.0	.0	.0	.0	12.5	87.5	97	8
TOT	0	0	0	2	4	18	94	24

PERIOD: (PRIMARY) 1935-1966
(OVER-ALL) 1880-1966

MAY

AREA 027 VLADIVOSTOK
41.7N 130.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	43 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.2	.2	.2	3	.0	.6
17/19	.0	.0	.0	.0	.0	.0	.0	.2	.2	2	.0	.4
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.2	8	.0	1.7
11/13	.0	.0	.0	.2	.6	1.0	.4	.0	.0	15	.4	2.7
9/10	.0	.0	.0	1.0	1.0	2.1	.0	.0	.0	24	1.0	3.9
7/8	.0	.0	.2	1.0	1.7	2.5	.0	.0	.0	29	1.7	4.4
6	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
5	.0	.0	.0	.8	2.3	2.5	.2	.4	.0	42	2.9	5.8
4	.0	.2	2.3	11.6	4.1	1.0	.4	.2	.0	97	5.4	14.7
3	.0	.0	.0	.0	.4	.2	.0	.0	.0	3	.0	.0
2	.0	.0	.0	2.7	10.6	4.6	.0	.0	.0	90	5.2	13.5
1	.0	.0	.2	.4	.8	.0	.0	.0	.0	7	1.0	.4
0	.4	1.9	2.9	9.8	3.1	.6	.0	.2	.0	91	7.3	11.4
-1	.0	.0	.2	.8	.2	.0	.0	.0	.0	6	1.0	.2
-2	.2	.4	2.3	5.2	.8	.0	.0	.0	.0	44	4.4	4.8
-4	.0	.2	.6	.4	.4	.2	.2	.0	.0	10	1.2	.8
-5	.0	.4	.8	.0	.0	.0	.0	.0	.0	6	.6	.6
-7/-8	.0	.0	.0	.4	.0	.2	.0	.0	.0	3	.4	.2
-9/-10	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
TOTAL	3	15	65	211	100	54	17	14	3	482	161	321
PCT	.6	3.1	13.5	43.8	20.7	11.7	3.5	2.9	.6	100.0	33.4	66.6

PERIOD: (OVER-ALL) 1963-1966

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	3.6	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	3.6	.0	.0	3.6	.0	.0	.0	1.2	1.2	.0	.0	2.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	4.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.6	3.6	.0	.0	7.1	.0	.0	.0	1.2	6.0	.0	.0	7.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	4.8	.0	.0	.0	9.5
1-2	.0	.0	4.8	.0	.0	.0	4.8	.0	.0	.0	4.8	.0	.0	.0	4.8
3-4	.0	.0	11.9	.0	.0	.0	11.9	.0	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	4.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	16.7	.0	.0	.0	16.7	.0	.0	4.8	15.9	.0	.0	.0	20.2

PERIOD: (OVER-ALL) 1963-1966

MAY

AREA 0027 VLADIVOSTOK
41.7N 130.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	3.6	.0	.0	.0	.0	3.6	.0	6.0	4.8	.0	.0	.0	10.7
1-2	.0	.0	4.8	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	4.8	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	9.5	.0	.0	.0	13.1	.0	6.0	4.8	.0	.0	.0	10.7

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	4.8	
1-2	.0	4.8	.0	.0	.0	.0	4.8	.0	.0	1.2	.0	.0	.0	1.2	
3-4	.0	.0	9.5	.0	.0	.0	9.5	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.8	9.5	.0	.0	.0	14.3	4.8	.0	1.2	.0	.0	.0	6.0	95.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	9.5	14.3	9.5	.0	.0	.0	33.3	
1-2	.0	4.8	19.0	.0	.0	.0	23.8	
3-4	.0	.0	28.6	4.8	.0	.0	33.3	
5-6	.0	.0	4.8	4.8	.0	.0	9.5	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.5	19.0	61.9	9.5	.0	.0	100.0	21

PERIOD: (OVER-ALL) 1952-1966

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	13.0	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	2
6-7	.0	.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
8-9	.0	.0	4.3	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDMT	17.4	34.8	8.7	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	2
TOTAL	8	22	13	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	2
PCT	17.4	47.8	28.3	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1930-1966
(OVER-ALL) 1879-1966

JUNE

AREA 0027 VLADIVOSTOK
41.7N 130.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	6.8	.0	3.4	.0	.0	.0	.0	10.3	.0	.0	54.7	.0	.0	.0	35.0
NE	5.0	.0	8.3	.0	.0	.0	.0	13.4	.0	.0	47.3	.0	.0	.0	39.3
E	12.3	.0	8.4	.0	.0	.0	.0	20.7	.0	.0	39.2	.0	.0	.0	40.1
SE	18.3	.0	1.7	.0	.0	.0	.0	19.9	.0	1.7	44.8	.0	.0	.0	35.6
S	4.7	.0	.0	.0	.0	.0	.0	4.7	.0	.0	39.7	.0	.0	.0	55.6
SW	1.7	.0	.0	.0	.0	.0	.0	1.7	.0	.0	48.5	.0	.0	.0	49.8
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32.7	.0	.0	.0	67.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63.6	.0	.0	.0	36.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6	.0	.0	.0	.0	.0	.0	2.6	.0	.0	39.5	.0	.0	.0	57.9
TOT PCT	6.9	.0	2.7	.0	.0	.0	.0	9.7	.0	.2	43.9	.0	.0	.0	46.2
TOT OBS:	403														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	5.0	.0	4.0	.0	.0	.0	.0	9.0	.0	.0	44.0	.0	.0	.0	47.0
0600	8.5	.0	.0	.0	.0	.0	.0	8.5	.0	.0	40.6	.0	.0	.0	50.9
1200	7.1	.0	4.0	.0	.0	.0	.0	11.1	.0	.8	42.1	.0	.0	.0	46.0
1800	7.0	.0	2.3	.0	.0	.0	.0	9.3	.0	.0	51.2	.0	.0	.0	39.5
TOT PCT	6.9	.0	2.6	.0	.0	.0	.0	9.6	.0	.2	44.0	.0	.0	.0	46.2
TOT OBS:	418														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	3.2	3.4	.8	.4	.0	.0		7.7	6.4		3.9	8.5	5.3	6.4	7.8	4.8	11.1	13.5
NE	3.8	6.4	1.8	.2	.0	.0		12.2	6.6		2.6	18.3	10.5	12.4	7.0	10.9	3.7	12.9
E	3.4	6.3	2.8	.4	.2	.0		12.8	8.0		19.7	15.9	17.1	12.6	17.2	8.3	13.0	12.4
SE	3.2	9.0	2.5	.8	.0	.0		15.5	7.5		13.2	17.5	14.5	16.6	21.1	15.7	14.8	10.1
S	4.7	10.5	3.1	.3	.0	.0		18.5	6.8		15.8	14.6	23.7	28.0	23.4	19.2	22.2	8.4
SW	3.1	9.4	1.6	.0	.0	.0		14.2	6.4		18.4	9.8	7.9	14.1	15.6	18.3	16.7	12.4
W	1.9	4.2	.8	.0	.0	.0		6.9	6.3		10.5	4.1	15.8	2.0	4.7	9.6	7.4	9.6
NW	1.8	1.2	.2	.0	.0	.0		3.2	4.0		5.3	3.3	.0	.0	.0	4.8	3.7	5.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.0							9.0	.0		10.5	8.1	5.3	7.9	3.1	8.3	7.4	15.7
TOT OBS	193	289	76	11	1	0	566		6.2		19	123	19	101	32	156	27	89
TOT PCT	34.1	50.4	13.4	1.9	.2	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	5.3	1.9	.4	.2	.0			7.7	6.4	7.9	6.3	5.3	12.9
NE	7.5	4.2	.6	.0	.0			12.2	6.6	16.2	12.1	10.2	10.8
E	7.2	3.9	1.3	.2	.0			12.8	8.0	16.4	13.3	9.8	12.5
SE	9.8	4.5	1.1	.2	.0			15.5	7.5	16.9	16.3	16.6	11.2
S	11.4	6.3	.8	.0	.0			18.5	6.8	14.8	27.3	19.9	11.8
SW	8.7	5.2	.2	.0	.0			14.2	6.4	10.9	13.1	17.8	13.4
W	4.5	2.0	.3	.0	.0			6.9	6.3	4.9	4.2	8.8	9.1
NW	2.8	.4	.0	.0	.0			3.2	4.0	3.5	.0	4.0	4.7
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	9.0							9.0	.0	8.5	7.5	7.6	13.8
TOT OBS	375	160	28	3	0	566			6.2	142	120	188	116
TOT PCT	66.3	28.3	4.9	.5	.0			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1930-1966
(OVER-ALL) 1879-1966

JUNE

AREA 0027 VLADIVOSTOK
41.7N 130.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	8.5	30.3	45.8	12.7	2.1	.7	.0	6.1	100.0	142
04009	7.5	30.0	48.3	10.8	3.3	.0	.0	6.4	100.0	120
12015	7.4	16.5	59.0	15.4	1.6	.0	.0	6.7	100.0	188
18021	13.8	27.6	44.0	13.8	.9	.0	.0	5.4	100.0	116
TOT	51	142	285	76	11	1	0	6.2		566
PCT	9.0	25.1	50.4	13.4	1.9	.2	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	2.9		8.0
NE	.0	.0	.0	6.7		8.0
E	.0	.0	2.9	16.3		7.8
SE	.0	.0	4.8	8.7		7.6
S	2.9	3.8	3.8	7.7		5.4
SW	1.0	3.8	3.8	13.5		6.4
W	.0	.0	.0	9.6		8.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	3.8	3.8		7.0
TOT OBS	1	2	5	18	26	7.0
TOT PCT	3.8	7.7	19.2	69.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0
NE	1.0	.0	.0	1.0	1.0	3.8	.0	.0	.0	.0	.0	.0
E	2.9	.0	.0	.0	10.6	5.8	.0	.0	.0	.0	.0	.0
SE	3.8	.0	.0	.0	3.8	1.9	3.8	.0	.0	.0	.0	.0
S	7.7	.0	.0	.0	.0	.0	.0	.0	.0	3.8	6.7	.0
SW	1.9	.0	.0	.0	3.8	7.7	.0	.0	.0	.0	8.7	.0
W	5.8	.0	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0
TOT OBS	7	0	0	1	5	5	2	0	0	1	5	26
TOT PCT	26.9	.0	.0	3.8	19.2	19.2	7.7	.0	.0	3.8	19.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4
>5000	.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4
>3500	6.9	13.8	13.8	13.8	13.8	13.8	13.8	13.8
>2000	10.3	27.6	31.0	31.0	31.0	31.0	31.0	31.0
>1000	13.8	34.5	44.8	48.3	48.3	48.3	48.3	48.3
>600	17.2	37.9	48.3	51.7	51.7	51.7	51.7	51.7
>300	17.2	37.9	48.3	51.7	51.7	51.7	51.7	51.7
>150	17.2	37.9	48.3	51.7	51.7	51.7	51.7	51.7
>0	17.2	37.9	48.3	51.7	51.7	62.1	75.9	79.3
TOTAL	5	11	14	15	15	18	22	23

TOTAL NUMBER OF OBS: 29

PCT FREQ NM <5/8: 20.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	.0	3.0	3.0	15.2	.0	3.0	9.1	6.1	36.4	24.2	33

PERIOD: (PRIMARY) 1930-1956
(OVER-ALL) 1879-1966

JUNE

AREA 0027 VLADIVOSTOK
41.7N 130.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.1	.5	.6	.0	.0	.0	.0	.0	.0	1.5	
	NN PCP	1.1	3.4	2.1	5.3	4.4	4.4	.8	1.4	.0	2.3	29.0	
	TOT %	1.4	3.6	2.6	5.9	4.4	4.4	.8	1.4	.0	2.3	26.5	
1/2<1	PCP	.0	.0	.3	.8	.0	.0	.0	.0	.0	.0	1.0	
	NN PCP	1.0	1.6	1.3	.5	.8	.9	.0	.0	.0	.3	6.3	
	TOT %	1.0	1.6	1.5	1.3	.8	.9	.0	.0	.0	.3	7.3	
1<2	PCP	.3	.5	1.4	.6	.5	.0	.0	.0	.0	.0	3.3	
	NN PCP	.4	.3	.5	.5	1.1	.6	.6	.3	.0	.5	4.8	
	TOT %	.6	.8	1.9	1.1	1.6	.6	.6	.3	.0	.5	8.0	
2<5	PCP	.3	.6	.8	.6	.0	.0	.0	.0	.0	.0	2.3	
	NN PCP	.3	.0	1.2	.8	.3	.3	.5	.0	.0	.5	4.0	
	TOT %	.8	.6	2.0	1.4	.3	.3	.5	.0	.0	.5	6.3	
5<10	PCP	.0	.5	.0	.4	.4	.0	.0	.0	.0	.0	1.3	
	NN PCP	1.3	2.5	2.4	1.8	3.4	3.3	1.6	.1	.0	2.8	19.0	
	TOT %	1.3	3.0	2.4	2.1	3.8	3.3	1.6	.1	.0	2.8	20.3	
10+	PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	.5	
	NN PCP	2.1	2.8	3.9	3.3	7.6	5.1	2.6	1.0	.0	3.0	31.3	
	TOT %	2.1	2.8	3.9	3.3	7.6	5.4	2.6	1.0	.0	3.3	31.8	
TOT OBS													400
TOT PCT		7.1	12.3	14.2	15.1	18.3	14.7	6.1	2.8	.0	9.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.3	.8	.9	1.7	.8	1.1	.7	.8	.0	2.5	9.7	
	4-10	.6	1.9	1.1	2.8	2.5	2.8	.0	.3	.0		11.9	
	11-21	.2	.2	.1	.5	.5	.2	.2	.0	.0		1.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.1	2.9	2.1	5.0	3.8	4.0	.8	1.1	.0	2.5	23.4	
1/2<1	0-3	.2	.7	.2	.5	.4	.6	.2	.0	.0	.2	3.1	
	4-10	.6	.8	.7	.4	.2	.3	.0	.0	.0		3.1	
	11-21	.0	.2	.5	.1	.0	.0	.0	.0	.0		.8	
	22+	.0	.0	.2	.2	.0	.0	.0	.0	.0		.4	
	TOT %	.8	1.7	1.6	1.2	.6	.9	.2	.0	.0	.2	7.4	
1<2	0-3	.3	.0	.3	.4	.8	.1	.3	.2	.0	.4	2.9	
	4-10	.0	.6	.7	.8	.6	.7	.4	.0	.0		3.9	
	11-21	.0	.4	.8	.3	.1	.0	.0	.0	.0		1.6	
	22+	.2	.0	.0	.2	.0	.0	.0	.0	.0		.4	
	TOT %	.5	1.0	1.8	1.7	1.5	.8	.7	.2	.0	.4	8.8	
2<5	0-3	.9	.4	.4	.2	.2	.4	.2	.7	.0	.6	4.1	
	4-10	.7	.7	1.2	1.2	.7	.6	.4	.0	.0		5.5	
	11-21	.2	.6	.6	.1	.3	.1	.2	.0	.0		2.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.8	1.7	2.2	1.5	1.2	1.1	.8	.7	.0	.6	11.7	
5<10	0-3	.4	1.0	.4	.0	1.0	.6	.2	.0	.0	2.2	6.0	
	4-10	.3	1.3	1.4	1.1	1.4	1.8	1.3	.1	.0		8.8	
	11-21	.1	.3	.2	.9	.6	.2	.0	.0	.0		2.3	
	22+	.2	.0	.2	.0	.2	.0	.0	.0	.0		.6	
	TOT %	1.0	2.7	2.2	2.0	3.3	2.7	1.5	.1	.0	2.3	17.7	
10+	0-3	1.0	1.0	1.3	.8	1.5	.5	.4	.2	.0	2.9	9.7	
	4-10	.7	1.1	1.7	2.8	4.2	3.9	2.1	.8	.0		17.2	
	11-21	.1	.2	.2	.4	1.3	1.3	.5	.0	.0		4.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.8	2.3	3.3	4.0	7.0	5.7	3.0	1.0	.0	2.9	31.0	
TOT OBS													487
TOT PCT		7.1	12.4	13.2	15.5	17.5	15.2	7.1	3.2	.0	8.8	100.0	

PERIOD: (PRIMARY) 1930-1966
(OVER-ALL) 1879-1966

JUNE

TABLE 10

AREA 0027 VLADIVOSTOK
41.7N 130.9E

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	12.5	25.0	12.5	.0	.0	.0	12.5	62.5	37.5	8
06009	40.0	.0	.0	.0	10.0	10.0	10.0	.0	.0	.0	70.0	30.0	10
12015	20.0	.0	.0	.0	20.0	30.0	20.0	.0	.0	.0	90.0	10.0	10
18021	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	2
TOT	8	0	0	1	5	5	3	0	0	1	23	7	30
PCT	26.7	.0	.0	3.3	16.7	16.7	10.0	.0	.0	3.3	76.7	23.3	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	25.4	5.9	8.5	11.9	16.9	31.4	118
06009	24.6	9.6	6.1	7.0	16.7	36.0	114
12015	21.4	5.4	10.1	14.3	17.3	31.5	168
18021	26.7	8.6	13.3	19.0	23.8	105	
TOT	122	36	49	60	88	156	505
PCT	24.2	7.1	9.8	11.9	17.4	30.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	28.6	42.9	28.6	7
06009	40.0	40.0	50.0	20.0	30.0	10
12015	20.0	20.0	40.0	50.0	10.0	10
18021	100.0	100.0	100.0	.0	.0	2
TOT	8	8	13	10	6	29
PCT	27.6	27.6	44.8	34.5	20.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	5.6	.0	.0	1	5.6
60/64	.0	.0	.0	.0	.0	.0	5.6	5.6	2	11.1
55/59	.0	.0	.0	.0	.0	.0	16.7	16.7	6	33.3
50/54	.0	.0	.0	.0	.0	.0	.0	44.4	8	44.4
45/49	.0	.0	.0	.0	.0	.0	.0	5.6	1	5.6
TOTAL	0	0	0	0	0	1	4	13	18	100.0
PCT	.0	.0	.0	.0	.0	5.6	22.2	72.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
4.2	1.4	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	4.2	1.4	.0	5.6	.0	.0	.0	.0
.0	5.6	4.2	6.9	2.8	8.3	.0	.0	.0	5.6
.0	1.4	13.3	11.1	2.8	2.8	5.6	.0	.0	5.6
.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0
4.2	8.3	29.2	19.4	5.6	16.7	5.6	.0	.0	11.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	68	65	57	48	43	45	56.1	148
06009	72	71	66	57	48	46	45	57.2	122
12015	69	65	63	55	48	45	43	55.3	187
18021	68	67	63	54	46	44	43	54.6	118
TOT	72	68	64	55	46	43	43	54.8	575

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	20.0	.0	80.0	88	5
06009	.0	.0	.0	.0	50.0	50.0	92	8
12015	.0	.0	.0	.0	14.3	85.7	96	7
TOT	0	0	0	1	5	14	92	20

JUNE

PERIOD: (PRIMARY) 1930-1966
(OVER-ALL) 1879-1966AREA 0027 VLADIVOSTOK
41.7N 130.9E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	WU FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.5	2	.0	.5
11/13	.0	.0	.0	.0	.5	.2	.2	.0	4	.2	.7
9/10	.0	.0	.2	.0	.5	1.2	.5	.2	11	1.2	1.5
7/8	.0	.0	.0	.7	1.0	1.5	.2	.2	15	.2	3.5
6	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
5	.0	.2	1.0	1.2	.7	1.7	.2	.0	21	1.7	3.5
4	.0	.2	3.0	2.5	5.0	2.5	.2	.0	54	5.7	7.7
3	.0	.2	.0	.5	.5	.5	.0	.0	7	.5	1.2
2	.0	4.0	4.0	7.5	4.0	4.2	.2	.0	96	9.7	14.2
1	.0	.0	.2	.5	.2	.0	.0	.0	4	.7	.2
0	.0	2.5	4.0	8.2	4.7	7.5	.2	.0	109	14.4	12.7
-1	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
-2	.0	3.0	2.7	3.2	2.0	1.2	.0	.0	49	6.5	5.7
-3	.0	.0	.0	.5	.0	.0	.0	.0	2	.5	.0
-4	.0	1.0	.2	.5	1.0	.5	.0	.0	13	2.0	1.2
-5	.0	.2	.5	.5	.0	.0	.0	.0	5	.7	.5
-6	.0	.0	.2	.0	.2	.0	.0	.0	2	.2	.2
-7/-8	.0	.5	.0	.0	.0	.0	.0	.0	2	.2	.2
-9/-10	.2	.2	.0	.5	.0	.0	.0	.0	4	.5	.5
TOTAL	1	49	65	107	82	85	9	4	402	182	220
PCT	.2	12.2	16.2	26.6	20.4	21.1	2.2	1.0	100.0	45.3	54.7

PERIOD: (OVER-ALL) 1963-1966

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.4	.0	.0	.0	2.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	.0	.0	.0	5.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	1.4	6.9	.0	.0	.0	8.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.2	.0	.0	.0	.0	4.2	.0	6.9	.0	.0	.0	.0	6.9
1-2	.0	8.3	4.2	.0	.0	.0	12.5	.0	1.4	5.6	.0	.0	.0	6.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	5.6	4.2	.0	.0	.0	9.7	.0	.0	1.4	.0	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	18.1	8.3	.0	.0	.0	26.4	.0	8.3	6.9	.0	.0	.0	15.3

PERIOD: (OVER-ALL) 1963-1966

JUNE

AREA 0027 VLADIVOSTOK
41.7N 130.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	1.4	5.6	.0	.0	.0	.0	6.9
1-2	.0	.0	5.6	.0	.0	.0	5.6	.0	5.6	.0	.0	.0	.0	5.6
3-4	.0	.0	5.6	.0	.0	.0	5.6	.0	.0	6.9	.0	.0	.0	6.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	11.1	.0	.0	.0	11.1	1.4	11.1	6.9	.0	.0	.0	19.4

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	4.2	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	9.7	.0	.0	.0	9.7	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.2	.0	9.7	.0	.0	.0	13.9	.0	.0	.0	.0	.0	.0	.0	94.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.1	16.7	.0	.0	.0	.0	27.8	
1-2	.0	16.7	16.7	.0	.0	.0	33.3	
3-4	.0	.0	22.2	.0	.0	.0	22.2	
5-6	.0	5.6	11.1	.0	.0	.0	16.7	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.1	38.9	30.0	.0	.0	.0	100.0	18

PERIOD: (OVER-ALL) 1962-1966

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.5	13.6	13.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	2
6-9	.0	.0	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
9-12	.0	.0	.0	4.5	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
12-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
15-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDRY	18.2	27.3	4.5	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	2
TOTAL	5	9	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	22	3
PCT	22.7	40.9	18.2	9.1	4.5	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1939-1965
(OVER-ALL) 1881-1965AREA 0027 VLADIVOSTOK
41.8N 130.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	11.8	.0	3.9	.0	.0	.0	.0	17.6	.0	.0	33.3	.0	.0	.0	49.0
NE	18.5	.0	4.0	.0	.0	.0	.0	22.5	.0	.0	33.7	.0	.0	.0	41.8
E	20.0	.0	4.8	.0	.0	.0	.0	25.4	.0	.0	29.0	.0	.0	.0	45.6
SE	19.4	.0	2.3	.0	.0	.0	.0	21.6	.0	.0	32.3	.0	1.3	.0	44.8
S	10.7	.0	2.7	.0	.0	.0	.0	13.3	.5	.0	22.9	.0	.0	.0	63.2
SW	7.1	.0	.8	.0	.0	.0	.0	7.9	.8	.0	27.7	.0	.0	.0	63.6
W	2.2	.0	.0	.0	.0	.0	.0	2.2	.0	.0	34.4	.0	.0	.0	63.4
NW	3.2	.0	.0	.0	.0	.0	.0	3.2	.0	.0	16.1	.0	.0	.0	80.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0	.0	.0	.0	.0	.0	.0	4.0	.0	.0	36.0	.0	.0	.0	60.0
TOT PCT	13.2	.0	2.6	.0	.0	.0	.0	15.9	.2	.0	29.5	.0	.2	.0	54.2
TOT OBS:	454														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	CRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0003	9.8	.0	3.0	.0	.0	.0	.0	12.8	.0	.0	28.6	.0	.0	.0	58.6
0609	12.0	.0	1.7	.0	.0	.0	.0	13.7	.0	.0	27.4	.0	.0	.0	59.0
1215	15.3	.0	3.2	.0	.0	.0	.0	18.5	.8	.0	23.4	.0	.8	.0	56.5
1821	17.0	.0	2.1	.0	.0	.0	.0	19.1	.0	.0	44.7	.0	.0	.0	36.2
TOT PCT TOT OBS	13.2 468	.0	2.6	.0	.0	.0	.0	15.8	.2	.0	30.1	.0	.2	.0	53.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	2.3	3.2	.3	.1	.0	.0		6.0	5.6	4.8	6.5	.0	6.8	4.0	3.9	.0	11.7
NE	3.5	6.6	1.6	.2	.0	.0		11.9	6.3	4.8	12.3	7.4	17.4	5.0	8.4	8.3	15.4
E	3.3	9.3	1.9	.2	.0	.0		14.7	6.8	25.0	16.6	14.8	11.9	23.0	14.2	18.8	10.6
SE	4.8	10.5	2.3	.0	.0	.0		17.6	6.5	10.7	16.6	11.1	19.1	25.0	19.7	29.2	12.8
S	5.7	12.4	2.0	.0	.0	.0		20.1	5.8	23.8	20.5	24.1	24.6	21.0	22.3	12.5	10.1
SW	2.8	9.5	2.2	.0	.0	.0		14.4	6.6	19.0	14.0	29.6	12.5	14.0	15.2	10.4	12.2
W	2.0	3.2	.0	.0	.0	.0		5.8	5.6	2.4	4.9	1.9	3.6	4.0	7.1	8.3	9.6
NW	.9	1.9	.0	.2	.0	.0		3.0	6.9	.0	2.3	3.7	.0	.0	4.8	4.2	5.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.5							6.5	.0	9.5	6.5	7.4	4.2	4.0	4.5	8.3	11.7
TOT OBS	196	350	68	4	0	0	618		5.9	21	154	27	118	23	155	24	94
TOT PCT	31.7	56.6	11.0	.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+					00	03	06	09	12	18
N	4.0	1.9	.1	.0	.0			6.0	5.6	6.3	5.5	3.9	9.3		
NE	8.0	3.5	.4	.0	.0			11.9	6.3	11.4	15.5	7.9	14.0		
E	8.9	5.1	.7	.0	.0			14.7	6.8	17.6	12.4	15.4	12.3		
SE	10.5	6.4	.7	.0	.0			17.6	6.5	15.9	17.6	20.4	16.1		
S	14.2	5.5	.4	.0	.0			20.1	5.8	20.9	24.5	22.1	10.6		
SW	9.0	4.9	.6	.0	.0			14.4	6.6	14.6	15.7	15.0	11.9		
W	4.2	1.3	.2	.0	.0			5.8	5.6	4.6	3.3	6.7	9.3		
NW	2.1	.6	.1	.2	.0			3.0	6.9	2.0	.7	4.2	5.5		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	6.5							6.5	.0	6.9	4.8	4.4	11.0		
TOT OBS	417	180	20	1	0	618			5.9	175	145	180	118		
TOT PCT	67.5	29.1	3.2	.2	.0			100.0		100.0	100.0	100.0	100.0		

JULY

PERIOD: (PRIMARY) 1933-1965
(OVER-ALL) 1881-1965AREA 0027 VLADIVOSTOK
41.8N 130.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				4+ MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	6.9	29.7	53.1	8.6	1.7	.0	.0	5.6	100.0	175
0600	4.8	27.6	53.9	11.0	.7	.0	.0	6.0	100.0	145
1200	4.4	19.4	63.3	12.8	.0	.0	.0	6.3	100.0	180
1800	11.0	24.6	52.5	11.9	.0	.0	.0	5.5	100.0	118
TOT	43	158	350	68	4	0	0	5.9		618
PCT	6.9	25.2	56.6	11.0	.6	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	.0	.0	3.8	.0		5.0
NE	.0	.0	1.0	3.8		7.6
E	.0	.0	2.9	14.4		7.6
SE	.0	.0	7.7	9.6		7.3
S	.0	.0	3.8	24.0		7.8
SW	.0	.0	4.8	5.8		7.4
W	.0	.0	2.9	7.7		7.4
NW	.0	.0	7.7	.0		6.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	0	0	9	17	26	7.4
TOT PCT	.0	.0	34.6	65.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8
NE	.0	.0	.0	.0	3.8	.0	.0	.0	.0	1.0	.0	.0
E	.0	.0	.0	3.8	2.9	3.8	3.8	.0	2.9	.0	.0	.0
SE	3.8	.0	.0	.0	1.9	.0	3.8	.0	.0	.0	.0	7.7
S	.0	.0	3.8	3.8	2.9	3.8	.0	1.9	.0	.0	.0	11.5
SW	.0	.0	.0	.0	.0	3.8	.0	1.9	.0	.0	.0	4.8
W	7.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9
NW	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	.0	3.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	3	0	1	2	3	4	2	1	1	0	9	26
TOT PCT	11.5	.0	3.8	7.7	11.5	15.4	7.7	3.8	3.8	.0	34.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	3.7	3.7	3.7	3.7	3.7	3.7
>5000	3.7	3.7	7.4	7.4	7.4	7.4	7.4	7.4
>3500	7.4	11.1	14.8	14.8	14.8	14.8	14.8	14.8
>2000	22.2	29.6	33.3	33.3	33.3	33.3	33.3	33.3
>1000	22.2	33.3	40.7	44.4	44.4	44.4	44.4	44.4
>600	22.2	40.7	48.1	51.9	51.9	51.9	51.9	51.9
>300	22.2	44.4	51.9	55.6	55.6	55.6	55.6	55.6
>150	22.2	44.4	51.9	55.6	55.6	55.6	55.6	55.6
>0	22.2	44.4	55.6	59.3	59.3	59.3	63.0	66.7
TOTAL	6	12	15	16	16	16	17	18

TOTAL NUMBER OF OBS: 27

PCT FREQ NH <5/8: 33.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
2.4	4.8	7.1	11.9	2.4	4.8	14.0	2.4	38.1	7.1	42

PERIOD: (PRIMARY) 1933-1965
(OVP-ALL) 1881-1965

JULY

AREA 0027 VLADIVOSTOK
41.8N 130.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.6	.1	.2	.0	.0	.0	.0	.0	1.1	
	NO PCP	1.4	3.0	3.4	3.3	2.2	2.2	1.2	.2	.0	1.1	18.2	
	TOT %	1.5	3.1	4.0	3.4	2.4	2.2	1.2	.2	.0	1.1	19.3	
1/2<1	PCP	.2	.4	1.8	1.2	.4	.1	.0	.0	.0	.0	4.2	
	NO PCP	.3	.8	.2	.6	.4	.4	.0	.3	.0	.0	3.1	
	TOT %	.5	1.2	2.0	1.8	.9	.6	.0	.3	.0	.0	7.3	
1<2	PCP	.0	1.3	.4	.9	.8	.1	.0	.0	.0	.0	3.6	
	NO PCP	.0	.4	.6	1.1	1.3	.8	.2	.0	.0	.4	4.9	
	TOT %	.0	1.8	.9	2.1	2.1	.9	.2	.0	.0	.4	8.4	
2<5	PCP	.2	.8	.4	.9	.4	.4	.0	.0	.0	.0	3.3	
	NO PCP	.0	.3	.2	.0	.0	.4	.3	.1	.0	.2	1.6	
	TOT %	.2	1.1	.6	.9	.4	1.0	.3	.1	.0	.2	4.9	
5<10	PCP	.4	.3	.3	.3	.8	.2	.1	.1	.0	.2	2.9	
	NO PCP	.9	2.2	3.3	4.6	4.9	2.4	.9	1.6	.0	1.1	22.0	
	TOT %	1.3	2.6	3.7	4.9	5.7	2.7	1.0	1.7	.0	1.3	24.9	
10+	PCP	.0	.1	.3	.2	.1	.1	.0	.0	.0	.0	.9	
	NO PCP	1.9	4.0	3.6	3.4	9.1	6.6	2.4	1.0	.0	2.2	34.2	
	TOT %	1.9	4.1	3.9	3.7	9.2	6.7	2.4	1.0	.0	2.2	35.1	
TOT OBS		5.4	13.4	15.1	16.8	20.8	14.1	5.2	3.3	.0	5.3	100.0	450
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.5	1.4	.9	1.0	.7	.3	.2	.0	.0	1.5	6.4	
	4-10	1.0	1.6	2.3	2.1	1.3	1.6	.8	.2	.0	.0	10.8	
	11-21	.0	.2	.3	.1	.0	.6	.1	.0	.0	.0	1.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.5	3.1	3.5	3.2	2.0	2.5	1.1	.2	.0	1.5	18.5	
1/2<1	0-3	.2	.2	.1	.6	.5	.3	.0	.2	.0	.0	2.0	
	4-10	.3	.3	.9	.9	.3	.4	.2	.1	.0	.0	3.2	
	11-21	.0	.5	.6	.3	.0	.0	.0	.0	.0	.0	1.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.5	1.0	1.6	1.8	.7	.6	.2	.3	.0	.0	6.8	
1<2	0-3	.0	.2	.5	.9	1.2	.6	.4	.0	.0	.5	4.4	
	4-10	.1	1.0	.5	1.3	1.2	.5	.4	.0	.0	.0	4.9	
	11-21	.0	.7	.1	.1	.2	.0	.0	.0	.0	.0	1.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	1.9	1.1	2.3	2.6	1.1	.7	.0	.0	.5	10.4	
2<5	0-3	.7	.8	.2	.4	.5	.3	.2	.0	.0	.4	2.7	
	4-10	.8	1.1	1.3	1.5	1.1	1.6	.7	.4	.0	.0	8.4	
	11-21	.2	.1	.1	.4	.0	.2	.0	.0	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.7	1.2	1.6	2.2	1.6	2.0	.9	.4	.0	.4	12.1	
5<10	0-3	.3	.8	1.0	1.1	.9	.3	.6	.3	.0	1.1	6.4	
	4-10	.6	1.0	1.6	2.5	3.6	1.8	.3	1.1	.0	.0	12.6	
	11-21	.2	.3	.5	.7	.5	.2	.0	.0	.0	.0	2.4	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	1.1	2.1	3.4	4.3	5.0	2.3	.9	1.4	.0	1.1	21.6	
10+	0-3	.9	1.2	.8	1.2	1.6	1.4	.5	.5	.0	2.2	10.3	
	4-10	.6	2.0	2.0	1.6	5.2	3.7	.9	.2	.0	.0	16.3	
	11-21	.0	.0	.4	.6	1.3	.8	.5	.0	.0	.0	3.7	
	22+	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	1.6	3.4	3.2	3.5	8.1	5.9	2.0	.8	.0	2.2	30.6	
TOT OBS		6.4	12.8	14.5	17.4	20.0	14.4	5.8	3.0	.0	5.7	100.0	546
TOT PCT													

JULY

PERIOD: (PRIMARY) 1933-1965
(OVER-ALL) 1881-1965AREA 0027 VLADIVOSTOK
41.8N 130.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	070	180	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8	TOTAL
(GMT)	149	209	399	999	1999	3499	4999	6499	7999			ANY HGT	OBS
00003	.0	.0	11.1	11.1	22.2	11.1	.0	.0	.0	.0	55.6	44.4	9
06009	.0	.0	.0	.0	.0	42.9	.0	.0	.0	.0	42.9	57.1	7
12015	16.7	.0	.0	16.7	16.7	.0	16.7	16.7	16.7	.0	100.0	.0	6
18021	25.0	.0	.0	.0	.0	12.5	12.5	.0	.0	.0	50.0	50.0	8
TOT	3	0	1	2	3	5	2	1	1	0	14	12	30
PCT	10.0	.0	3.3	6.7	10.0	16.7	6.7	3.3	3.3	.0	60.0	40.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL
(GMT)							OBS
00003	17.9	5.0	9.6	10.9	23.1	32.7	156
06009	18.8	3.0	10.5	7.5	24.1	35.3	133
12015	12.3	7.4	11.7	17.2	19.6	31.9	163
18021	29.6	12.0	9.3	10.2	17.6	21.3	108
TOT	105	39	58	66	119	173	560
PCT	18.8	7.0	10.4	11.8	21.3	30.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NM <5/8	TOTAL
(GMT)	<500	<1	<5	AND 5+	AND 5+	OBS
00003	.0	14.3	57.1	14.3	28.6	7
06009	.0	.0	.0	50.0	50.0	6
12015	16.7	16.7	50.0	50.0	.0	6
18021	25.0	25.0	25.0	25.0	50.0	8
TOT	3	4	9	9	9	27
PCT	11.1	14.8	33.3	33.3	33.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
80/84	.0	.0	.0	.0	2.9	2.9	.0	.0	2	5.9
79/79	.0	.0	.0	.0	.0	11.8	.0	2.9	5	14.7
70/74	.0	.0	.0	.0	.0	.0	17.6	11.8	10	29.4
65/69	.0	.0	.0	.0	.0	.0	2.9	23.5	9	26.5
60/64	.0	.0	.0	.0	.0	.0	2.9	8.8	4	11.8
55/59	.0	.0	.0	.0	.0	.0	2.9	8.8	4	11.8
TOTAL	0	0	0	0	1	5	9	19	34	100.0
PCT	.0	.0	.0	.0	2.9	14.7	26.5	55.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
0.0	0.0	0.0	0.0	0.0	1.5	4.4	0.0	0.0	0.0
0.0	1.5	1.5	2.9	1.5	7.4	0.0	0.0	0.0	0.0
0.0	.7	3.7	5.9	8.8	4.4	0.0	2.9	0.0	2.9
0.0	.0	7.4	8.1	5.1	.7	3.7	1.5	0.0	0.0
0.0	.0	.0	5.9	2.9	2.9	.0	0.0	0.0	0.0
0.0	.0	.0	8.8	2.9	.0	.0	0.0	0.0	0.0
0.0	2.2	12.5	31.6	21.3	16.9	8.1	4.4	0.0	2.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	82	80	75	66	57	55	50	66.6	179
06009	81	80	77	66	57	55	54	68.8	146
12015	79	75	73	64	55	52	50	64.3	182
18021	75	74	73	63	55	52	52	63.5	120
TOT	82	79	75	64	57	52	50	65.4	627

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	.0	.0	.0	8.3	8.3	25.0	58.3	89	12
06009	.0	.0	.0	.0	40.0	10.0	50.0	50.0	86	10
12015	.0	.0	.0	.0	.0	33.3	66.7	91	6	6
18021	.0	.0	.0	.0	.0	50.0	50.0	91	6	6
TOT	0	0	0	0	1	5	9	19	89	34

PERIOD: (PRIMARY) 1933-1965
(OVER-ALL) 1881-1965

JULY

TABLE 17

AREA 0027 VLADIVOSTOK
41.8N 130.8E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIFF	49 52	53 56	57 60	61 64	63 68	69 72	73 76	77 80	81 84	TOT	M FOG	NO FOG
11/13	.0	.0	.0	.2	.0	.2	.2	.2	.2	3	.4	.6
9/10	.0	.0	.0	.0	.2	.6	.4	.0	.0	6	.4	.9
7/8	.0	.0	.2	.4	.2	.2	.9	.2	.0	10	.4	1.7
6	.0	.0	.0	.0	.0	.2	.4	.4	.0	5	.2	.9
5	.0	.2	.4	.9	1.3	1.5	1.3	.4	.0	28	1.3	4.7
4	.0	.4	.6	2.4	2.8	2.4	1.1	.9	.0	49	3.2	7.3
3	.0	.0	.2	.0	.6	.2	.9	.0	.0	9	.2	1.7
2	.2	1.3	3.2	9.1	4.1	5.2	2.4	.2	.2	120	8.2	17.7
1	.0	.0	.4	.4	.0	.0	1.1	.0	.0	9	.4	1.5
0	.2	.4	5.0	11.0	6.7	1.9	1.5	.2	.0	125	9.3	17.7
-1	.0	.2	.4	.2	.4	.2	.4	.0	.0	9	.2	1.7
-2	.0	1.3	2.4	7.5	2.6	.4	.4	.0	.0	68	4.1	10.6
-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
-4	.0	.0	.2	1.5	.4	.6	.0	.0	.0	13	1.1	1.7
-5	.0	.0	.2	.6	.0	.0	.0	.0	.0	4	.2	.6
-6	.0	.0	.2	.0	.2	.0	.0	.0	.0	2	.0	.4
-7/-10	.2	.0	.0	.0	.0	.0	.0	.0	.0	1	.2	.0
TOTAL	3		63		91		51		2	464	139	325
PCT	.6	3.9	13.6	34.5	19.6	13.8	11.0	2.6	.4	100.0	30.0	70.0

PERIOD: (OVER-ALL) 1963-1965

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N								NE							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	<1	1.8	7.1	.0	.0	.0	.0	8.9
1-2	.0	.0	.0	.0	.0	.0	.0	1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	TOT PCT	1.8	7.1	.0	.0	.0	.0	8.9

E								SE							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	5.4	5.4	.0	.0	.0	.0	10.7	<1	.0	1.8	.0	.0	.0	.0	1.8
1-2	.0	7.1	7.1	.0	.0	.0	14.3	1-2	.0	7.1	7.1	.0	.0	.0	14.3
3-4	.0	.0	.0	.0	.0	.0	.0	3-4	.0	.0	7.1	.0	.0	.0	7.1
5-6	.0	.0	.0	.0	.0	.0	.0	5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	5.4	12.5	7.1	.0	.0	.0	29.0	TOT PCT	.0	8.9	14.3	.0	.0	.0	23.2

PERIOD: (OVER-ALL) 1963-1969

JULY

AREA 0027 VLADIVOSTOK
41.8N 130.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.0	1.8	.0	.0	.0	.0		1.8
1-2	.0	.0	7.1	.0	.0	.0		.0	.0	7.1	.0	.0	.0	.0		7.1
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	.0	7.1	.0	.0	.0		7.1	.0	8.9	.0	.0	.0	.0		8.9

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	19.6	.0	.0	.0	.0		19.6	.0	.0	.0	.0	.0	.0		.0	
1-2	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	7.1	.0	.0		7.1	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	19.6	.0	.0	.0	.0		19.6	.0	.0	.0	7.1	.0	.0		7.1	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.1	35.7	.0	.0	.0	.0	42.9	
1-2	.0	21.4	21.4	.0	.0	.0	42.9	
3-4	.0	.0	7.1	.0	.0	.0	7.1	
5-6	.0	.0	.0	7.1	.0	.0	7.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.1	57.1	28.6	7.1	.0	.0	100.0	14

PERIOD: (OVER-ALL) 1953-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.0	10.0	.0	.0	15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	4
6-7	.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
7-9	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDRY	15.0	25.0	5.0	10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	2
TOTAL	4	7	1	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	20	3
PCT	20.0	35.0	5.0	20.0	15.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1927-1971
(OVER-ALL) 1973-1971

AUGUST

AREA 0027 VLADIVOSTOK
41.8N 131.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	21.3	.0	1.0	.0	.0	.0	.0	22.2	.0	.0	3.9	.0	.0	.0	73.9
NE	12.5	.0	5.3	.0	.0	.0	.0	18.0	.0	.0	15.7	.0	.0	.0	66.3
E	6.8	1.0	.0	.0	.0	.0	.0	7.8	.0	1.4	10.9	.0	.0	.0	79.9
SE	9.7	.3	.0	.0	.0	.0	.0	10.0	.0	.0	12.1	.0	.0	.0	77.9
S	2.6	.0	.9	.0	.0	.0	.0	3.4	.0	.0	13.1	.9	.0	.0	82.6
SW	8.9	.0	1.8	.0	.0	.0	.0	10.7	.0	.0	9.8	.0	.0	.0	79.3
W	1.4	.0	2.8	.0	.0	.0	.0	4.2	.0	.0	9.8	.0	.0	.0	86.0
NW	13.7	2.1	.0	.0	.0	.0	.0	16.8	.0	.0	6.1	.0	.0	.0	77.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.3	.0	.0	.0	76.3
TOT PCT	8.5	.4	1.3	.0	.0	.0	.0	10.2	.0	.2	11.4	.2	.0	.0	78.0
TOT OBS:	519														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	9.0	1.9	.0	.0	.0	.0	.0	10.9	.0	.0	10.3	.0	.0	.0	78.8
06009	8.2	.0	2.0	.0	.0	.0	.0	10.2	.0	.0	10.9	.0	.0	.0	78.9
12015	8.5	.0	1.4	.0	.0	.0	.0	9.9	.0	.0	11.3	.0	.0	.0	78.9
18021	9.5	.0	2.1	.0	.0	.0	.0	11.6	.0	1.1	13.7	1.1	.0	.0	72.6
TOT PCT	8.7	.6	1.3	.0	.0	.0	.0	10.6	.0	.2	11.3	.2	.0	.0	77.8
TOT OBS:	546														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	2.0	5.5	2.1	.3	.0	.0		10.1	8.5	12.5	10.6	11.8	4.4	3.6	7.6	12.1	21.1	
NE	2.7	6.0	2.4	.3	.0	.0		11.5	8.1	.0	14.1	11.2	8.6	11.6	12.1	3.6	17.8	
E	3.0	6.8	3.9	.9	.0	.0		13.9	9.2	15.3	15.6	9.9	13.0	13.4	12.7	23.6	12.2	
SE	3.5	10.4	1.5	.2	.0	.0		15.6	6.7	18.1	14.4	17.8	19.6	25.0	17.0	19.3	3.3	
S	5.3	13.3	2.2	.1	.0	.0		20.9	6.0	16.7	22.0	28.3	30.4	17.9	17.5	17.9	12.8	
SW	3.0	6.1	.8	.0	.0	.0		9.7	5.3	3.5	11.1	5.3	12.0	10.7	12.0	4.3	6.1	
W	1.5	4.2	.3	.2	.0	.0		6.3	6.3	9.0	4.1	9.2	2.8	3.6	11.4	1.4	5.6	
NW	2.4	3.6	.7	.1	.0	.0		6.8	6.0	13.9	5.0	3.9	2.8	3.6	6.7	9.3	14.4	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.1							5.1	.0	11.1	3.1	2.6	6.4	10.7	2.9	8.6	6.7	
TOT OBS	195	382	90	16	0	0	683		6.7	36	160	38	123	28	171	35	90	
TOT PCT	28.6	55.9	13.2	2.3	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	03	06	09	12
N	4.3	4.7	1.0	.0	.0		10.1	8.5	11.0	6.1	7.0	18.6	
NE	5.4	5.1	1.0	.0	.0		11.5	8.1	11.5	9.2	12.1	13.8	
E	6.8	4.5	2.2	.4	.0		13.9	9.2	15.6	12.3	12.8	15.4	
SE	9.5	5.2	.9	.0	.0		15.6	6.7	15.1	19.2	18.1	7.8	
S	14.6	5.7	.6	.0	.0		20.9	6.0	21.0	29.9	17.6	14.2	
SW	7.3	2.3	.1	.0	.0		9.7	5.3	9.7	10.4	11.8	5.6	
W	4.4	1.7	.2	.0	.0		6.3	6.3	5.0	4.3	10.3	4.4	
NW	4.6	1.9	.3	.0	.0		6.8	6.0	6.6	3.1	6.3	13.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	5.1						5.1	.0	4.6	5.3	6.0	7.2	
TOT OBS	423	214	43	3	0	683		6.7	196	163	199	125	
TOT PCT	61.9	31.3	6.3	.4	.0		100.0		100.0	100.0	100.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1927-1971
(OVER-ALL) 1873-1971

TABLE 4

AREA 0027 VLADIVOSTOK
41.8N 131.0E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	4.6	24.0	59.7	10.2	1.5	.0	.0	6.3	100.0	196
0600Z	5.5	28.8	51.5	12.3	1.8	.0	.0	6.0	100.0	163
1201Z	4.0	18.6	61.3	15.6	2.5	.0	.0	7.4	100.0	199
1802Z	7.2	26.4	47.2	15.2	4.0	.0	.0	7.1	100.0	125
TOT	35	160	382	90	16	0	0	6.7		683
PCT	5.1	23.4	55.9	13.2	2.3	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.0	.0	.0	5.4		5.8
NE	.0	.5	4.9	4.9		7.1
E	3.9	1.5	12.3	12.3		6.4
SE	.0	.0	6.9	6.9		7.2
S	1.5	2.0	5.4	16.2		7.0
SW	2.5	.0	.0	1.5		4.0
W	.0	.0	2.0	3.4		6.9
NW	2.0	.0	.0	.5		2.4
VAR	.0	.0	.0	.0		.0
CALM	2.0	.0	.0	.0		.0
TOT OBS	7	2	16	26	51	6.4
TOT PCT	13.7	3.9	31.4	51.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NM >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	NM <5/8 ANY HGT	TOTAL OBS
N	2.0	.0	.0	5.4		5.8	.0	.0	.0	.0	.0	2.0	1.5	.0	.0	.0	3.9	
NE	.0	.5	4.9	4.9		7.1	.0	.0	1.0	.0	.0	4.4	.0	.0	.0	.0	4.9	
E	3.9	1.5	12.3	12.3		6.4	2.0	.0	6.9	3.9	.0	4.9	1.5	.0	.0	.0	10.8	
SE	.0	.0	6.9	6.9		7.2	2.5	.0	.0	2.0	.0	4.4	.5	.0	.0	.0	4.4	
S	1.5	2.0	5.4	16.2		7.0	7.4	.0	.0	7.8	2.0	.0	1.0	.0	.0	.0	6.9	
SW	2.5	.0	.0	1.5		4.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	2.9	
W	.0	.0	2.0	3.4		6.9	.0	.0	.0	.0	2.0	2.0	.0	.0	.0	.0	1.5	
NW	2.0	.0	.0	.5		2.4	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	2.0	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
TOT OBS	7	2	16	26	51	6.4	6	0	4	7	2	9	3	0	0	0	20	51
TOT PCT	13.7	3.9	31.4	51.0	100.0		11.8	.0	7.8	13.7	3.9	17.6	5.9	.0	.0	.0	39.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
>OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
>OR >3500	4.0	4.0	6.0	6.0	6.0	6.0	6.0	6.0
>OR >2000	12.0	22.0	24.0	24.0	24.0	24.0	24.0	24.0
>OR >1000	12.0	26.0	28.0	28.0	28.0	28.0	28.0	28.0
>OR >600	12.0	36.0	42.0	42.0	42.0	42.0	42.0	42.0
>OR >300	12.0	42.0	50.0	50.0	50.0	50.0	50.0	50.0
>OR >150	12.0	42.0	50.0	50.0	50.0	50.0	50.0	50.0
>OR >0	12.0	42.0	50.0	50.0	50.0	52.0	58.0	60.0
TOTAL	6	21	25	25	25	26	29	30

TOTAL NUMBER OF OBS: 50

PCT FREQ NM <5/8: 40.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.9	21.0	7.3	1.8	1.8	7.3	1.8	18.2	23.6	10.9	55

PERIOD: (PRIMARY) 1927-1971
(OVER-ALL) 1873-1971

AUGUST

AREA 0027 VLADIVOSTOK
41.0N 131.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.1	.0	.2	.2	.7	.0	.0	.0	.0	1.0	
	NO PCP	.2	1.0	.6	.7	1.4	.9	.4	.2	.0	.4	5.0	
	TOT %	.5	1.1	.6	.9	1.6	.9	.4	.2	.0	.4	6.0	
1/2<1	PCP	.2	.2	.0	.3	.3	.0	.0	.0	.0	.0	1.0	
	NO PCP	.2	.5	.1	.4	.7	.2	.1	.0	.0	.0	2.1	
	TOT %	.4	.7	.1	.7	1.0	.2	.1	.0	.0	.0	3.1	
1<2	PCP	.6	.8	.2	.2	.1	.8	.1	.0	.0	.0	2.7	
	NO PCP	.0	.1	.4	.3	.0	.2	.0	.0	.0	.0	1.0	
	TOT %	.6	.9	.6	.5	.1	1.0	.1	.0	.0	.0	3.7	
2<5	PCP	.4	.7	.6	.5	.0	.2	.0	.2	.0	.0	2.5	
	NO PCP	.1	.2	.7	.1	.9	.1	.2	.0	.0	.0	2.3	
	TOT %	.5	.9	1.3	.6	.9	.3	.2	.2	.0	.0	4.9	
5<10	PCP	.8	.5	.2	.2	.2	.0	.2	.9	.0	.0	2.9	
	NO PCP	2.8	1.8	4.1	3.9	7.2	3.1	1.6	1.0	.0	1.0	26.4	
	TOT %	3.6	2.3	4.3	4.1	7.4	3.1	1.7	1.8	.0	1.0	29.3	
10+	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	4.9	6.6	7.2	7.3	11.5	5.5	4.4	3.9	.0	1.9	52.8	
	TOT %	4.9	6.6	7.4	7.3	11.5	5.5	4.4	3.9	.0	1.9	53.0	
TOT OBS		515											
TOT PCT		10.0	12.4	14.2	14.0	22.3	10.6	6.9	6.2	.0	3.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SND KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.3	.3	.3	.3	.0	.0	.0	.0	.3	1.7	
	4-10	.1	.6	.3	.7	.7	.4	.3	.2	.0	.0	3.2	
	11-21	.2	.2	.4	.1	.3	.0	.0	.0	.0	.0	1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	1.1	.9	1.0	1.4	.4	.3	.2	.0	.3	6.1	
1/2<1	0-3	.1	.3	.0	.3	.3	.1	.3	.1	.0	.0	1.4	
	4-10	.2	.6	.1	.5	.6	.3	.0	.2	.0	.0	2.4	
	11-21	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	1.0	.2	.8	.9	.3	.3	.3	.0	.0	4.1	
1<2	0-3	.0	.0	.0	.0	.3	.6	.0	.2	.0	.0	1.0	
	4-10	.6	.6	.1	.8	.2	.4	.1	.0	.0	.0	2.7	
	11-21	.4	.3	.4	.2	.0	.0	.0	.0	.0	.0	1.3	
	22+	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	1.2	1.1	.5	.9	.4	1.0	.1	.2	.0	.0	5.5	
2<5	0-3	.4	.2	.4	.4	.4	.2	.2	.2	.0	.7	3.1	
	4-10	.4	.4	.6	1.0	.6	.1	.0	.3	.0	.0	3.4	
	11-21	.2	.4	.4	.2	.3	.0	.0	.0	.0	.0	1.3	
	22+	.0	.2	.5	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	1.0	1.2	2.0	1.6	1.4	.3	.2	.5	.0	.7	8.7	
5<10	0-3	.4	.2	.3	.6	2.0	1.2	.4	.5	.0	.9	6.5	
	4-10	1.6	1.1	1.5	2.3	3.8	1.4	.9	.9	.0	.0	13.7	
	11-21	.9	.9	1.5	.5	1.1	.3	.2	.1	.0	.0	5.1	
	22+	.2	.1	.5	.2	.0	.0	.0	.1	.0	.0	1.0	
	TOT %	3.2	2.0	3.8	3.6	6.9	2.8	1.5	1.6	.0	.9	26.3	
10+	0-3	.8	2.0	1.7	2.0	2.4	.9	.9	1.3	.0	2.4	14.5	
	4-10	2.6	3.0	4.4	4.3	7.9	4.1	2.5	1.7	.0	.0	30.5	
	11-21	.4	1.0	.7	.6	.4	.1	.2	.2	.0	.0	3.6	
	22+	.2	.0	.0	.1	.1	.0	.3	.1	.0	.0	.7	
	TOT %	3.9	6.0	6.8	7.0	10.8	5.1	3.9	3.4	.0	2.4	49.3	
TOT OBS		586											
TOT PCT		10.1	12.4	14.2	14.9	21.8	10.0	6.3	6.1	.0	4.3	100.0	

AUGUST

PERIOD: (PRIMARY) 1927-1971
(OVER-ALL) 1873-1971AREA 0027 VLADIVOSTOK
41.8N 131.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	8.3	.0	.0	16.7	.0	16.7	8.3	.0	.0	.0	50.0	50.0	12
06009	11.8	.0	9.9	9.9	11.8	23.5	.0	.0	.0	.0	58.8	41.2	17
12015	.0	.0	22.2	22.2	.0	11.1	.0	.0	.0	.0	55.6	44.4	9
18021	21.4	.0	7.1	14.3	.0	14.3	14.3	.0	.0	.0	71.4	28.6	14
TOT	6	0	4	7	2	9	3	0	0	0	31	21	52
PCT	11.5	.0	7.7	13.5	3.8	17.3	5.8	.0	.0	.0	59.6	40.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.0	4.2	3.8	7.8	33.7	47.6	166
06009	7.7	1.9	3.8	9.0	26.3	51.3	156
12015	6.8	4.5	7.9	9.0	26.0	45.8	177
18021	8.3	5.5	5.9	9.2	22.9	48.6	109
TOT	38	24	32	53	168	293	608
PCT	6.3	3.9	5.3	8.7	27.6	48.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	8.3	8.3	25.0	25.0	50.0	12
06009	12.5	18.8	37.5	37.5	25.0	16
12015	.0	22.2	44.4	11.1	44.4	9
18021	15.4	29.1	46.2	23.1	30.8	13
TOT	5	9	19	13	18	50
PCT	10.0	18.0	38.0	26.0	36.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	3.3	3.3	6.7	4	13.3
70/74	.0	.0	.0	.0	.0	.0	6.7	33.3	12	40.0
65/69	.0	.0	.0	.0	.0	13.3	23.3	6.7	13	43.3
60/64	.0	.0	.0	.0	.0	.0	.0	3.3	1	3.3
TOTAL	0	0	0	0	0	5	10	15	30	100.0
PCT	.0	.0	.0	.0	.0	16.7	33.3	50.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	3.3	1.7	8.3	.0	.0	.0	.0	.0
5.8	.0	11.7	5.0	15.0	1.7	.0	.8	.0	.0
3.3	3.3	13.3	10.8	12.5	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	3.3	.0	.0	.0
9.2	3.3	28.3	17.5	35.8	1.7	3.3	.8	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	82	80	72	63	57	57	71.0	203
06009	84	83	81	72	63	57	54	71.5	165
12015	81	79	77	70	63	57	53	69.2	199
18021	77	76	75	68	63	57	53	68.6	126
TOT	84	82	79	70	63	57	54	70.2	693

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	60.0	20.0	20.0	80	5
06009	.0	.0	.0	12.5	25.0	62.5	89	8
12015	.0	.0	.0	14.3	28.6	57.1	90	7
18021	.0	.0	.0	.0	50.0	50.0	90	10
TOT	0	0	0	5	10	15	88	30

AUGUST

PERIOD: (PRIMARY) 1927-1971
(OVER-ALL) 1973-1971

TABLE 17

AREA 0027 VLADIVOSTOK
41.8N 131.0EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	M FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
9/10	.0	.0	.0	.0	.0	.2	.4	.2	4	.2	.6
7/8	.0	.0	.2	.0	.4	.9	.6	.4	13	.6	1.9
6	.0	.0	.0	.2	.2	.0	.2	.0	3	.0	.6
5	.0	.0	.0	.0	1.5	.9	.2	1.3	21	.4	3.6
4	.0	.0	.2	.4	1.9	3.0	2.1	.4	42	1.1	6.8
3	.0	.0	.0	.0	.8	.6	.0	.0	7	.0	1.3
2	.0	.2	.0	4.5	6.0	5.5	1.7	.6	98	2.4	16.0
1	.0	.2	.0	.4	1.3	.4	.0	.0	12	.0	2.3
0	.0	.0	3.0	6.6	11.8	6.8	2.4	.0	163	3.8	26.9
-1	.0	.0	.0	.8	.6	.0	.0	.0	7	.0	1.3
-2	.0	.0	2.8	8.3	4.7	.9	.2	.0	90	2.3	14.7
-3	.0	.0	.2	.9	.6	.0	.0	.0	9	.2	1.5
-4	.0	.4	3.0	1.7	1.7	.8	.0	.0	40	.4	7.1
-5	.0	.0	.9	.6	.0	.4	.0	.0	10	.0	1.9
-6	.0	.0	.2	.2	.0	.0	.0	.0	2	.0	.4
-7/-8	.0	.2	.6	.6	.0	.0	.0	.0	7	.2	1.1
-9/-10	.0	.2	.2	.0	.0	.0	.0	.0	2	.0	.4
-11/-13	.2	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	1	6	133	167	108	16	332	61	471		
PCT	.2	1.1	11.3	25.0	31.4	20.3	7.7	3.0	100.0	11.5	88.5

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	3.4	2.7	.0	.0	.0	.0	6.1
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	.0	.0	2.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	.0	.0	2.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	3.4	2.7	6.8	.0	.0	.0	12.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	7.4	5.4	.0	.0	.0	.0	12.8	.0	9.5	.0	.0	.0	.0	9.5
1-2	.0	2.0	2.7	.0	.0	.0	4.7	.0	.7	2.7	.0	.0	.0	3.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	2.7
8-9	.0	.0	6.8	5.4	.0	.0	12.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	2.7	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	7.4	7.4	12.2	8.1	.0	.0	39.1	.0	10.1	2.7	2.7	.0	.0	15.5

PERIOD: (OVER-ALL) 1963-1971

AUGUST

AREA 0027 VLADIVOSTOK
41.8N 131.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.7	9.5	.0	.0	.0	.0	12.2	.0	.7	.0	.0	.0	.0	.7
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	2.7
3-4	.0	2.7	5.4	.0	.0	.0	8.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	5.4	.0	.0	.0	5.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.7	12.2	10.8	.0	.0	.0	25.7	.0	3.4	.0	.0	.0	.0	3.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.7	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	.0	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	.0	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.2	29.7	.0	.0	.0	.0	45.9	
1-2	.0	5.4	5.4	.0	.0	.0	10.8	
3-4	.0	5.4	5.4	.0	.0	.0	10.8	
5-6	.0	.0	8.1	.0	.0	.0	8.1	
7	.0	.0	5.4	2.7	.0	.0	8.1	
8-9	.0	.0	8.1	5.4	.0	.0	13.5	
10-11	.0	.0	.0	2.7	.0	.0	2.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	16.2	40.5	32.4	10.8	.0	.0	100.0	37

PERIOD: (OVER-ALL) 1959-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.9	9.8	9.8	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
6-7	.0	4.9	.0	2.4	14.6	7.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
8-9	.0	.0	.0	.0	.0	12.2	7.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
10-11	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
INDET	9.8	4.9	.0	2.4	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
TOTAL	6	8	4	3	8	9	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41
PCT	14.6	19.5	9.8	7.3	19.5	22.0	7.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1933-1967
(OVER-ALL) 1871-1967AREA 0027 VLADIVOSTOK
41.7N 130.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	7.7	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	.0	.0	92.3
NE	23.2	.0	.0	.0	.0	.0	.0	23.2	.0	.0	1.5	.0	.0	.0	75.3
E	18.5	.0	3.6	.0	.0	.0	.0	22.0	.0	.0	2.4	.0	.0	.0	75.6
SE	7.5	.0	1.3	.0	.0	.0	.0	8.8	.0	.0	.0	.0	.0	.0	91.3
S	3.4	.0	.0	.0	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	96.1
SW	3.5	.0	.0	.0	.0	.0	.0	3.5	.0	.0	.9	.0	.0	.0	95.7
W	5.3	.0	.0	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	94.7
NW	3.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	97.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	8.6	.0	.4	.0	.0	.0	.0	9.1	.0	.0	.6	.0	.0	.0	90.3
TOT OBS:	464														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG PLWG	DUST SNOW	NO SIG WEA
0000	6.3	.0	.0	.0	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	.0	93.8
0600	10.9	.0	.0	.0	.0	.0	.0	10.9	.0	.0	.9	.0	.0	.0	.0	88.2
1200	10.1	.0	.7	.0	.0	.0	.0	10.8	.0	.0	1.4	.0	.0	.0	.0	87.8
1800	7.1	.0	1.0	.0	.0	.0	.0	8.2	.0	.0	1.0	.0	.0	.0	.0	90.8
TOT PCT TOT OBS:	8.6 475	.0	.4	.0	.0	.0	.0	9.1	.0	.0	.8	.0	.0	.0	.0	90.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WNO DIR	WIND SPED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.3	7.4	2.8	1.8	.2	.0		13.5	10.9	31.8	18.2	5.9	10.0	6.0	9.3	3.4	22.8	
NE	1.9	8.1	2.6	1.4	.0	.0		14.1	9.7	22.7	15.5	23.5	11.0	9.0	14.2	17.2	12.8	
E	1.4	4.9	2.9	.5	.0	.0		9.1	9.7	6.8	11.4	5.9	8.6	7.0	7.1	13.8	10.0	
SE	2.4	5.7	1.6	.1	.0	.0		9.7	6.9	.0	12.5	11.8	10.0	12.0	11.4	8.6	2.8	
S	3.2	11.9	2.9	.0	.0	.0		17.9	7.0	18.2	13.3	20.6	32.4	10.0	18.8	12.9	9.4	
SW	2.0	8.9	1.7	.0	.0	.0		12.6	6.9	9.1	11.7	2.9	9.0	15.0	18.2	11.2	10.0	
W	2.4	4.8	.9	.0	.0	.0		8.1	6.5	9.1	4.5	.0	8.1	7.0	9.9	14.7	9.4	
NW	2.1	5.6	2.7	.8	.0	.0		11.2	9.0	2.3	6.1	29.4	9.0	18.0	8.6	14.7	20.6	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.9							3.9	.0	.0	6.8	.0	1.9	16.0	2.5	3.4	2.2	
TOT OBS	117	327	100	26	1	0	571		8.0	11	132	17	105	25	162	29	90	
TOT PCT	20.5	57.3	17.5	4.6	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	4.6	6.3	2.2	.4	.0		13.5	10.9	19.2	9.4	8.8	18.1
NE	5.3	6.5	1.8	.4	.0		14.1	9.7	16.1	12.7	13.5	13.9
E	3.2	4.3	1.4	.2	.0		9.1	9.7	11.0	8.2	7.1	10.9
SE	5.7	3.5	.5	.0	.0		9.7	6.9	11.5	10.2	11.5	4.2
S	9.9	7.6	.4	.0	.0		17.9	7.0	13.6	30.7	17.6	10.3
SW	7.2	4.9	.5	.0	.0		12.6	6.9	11.5	8.2	17.8	10.3
W	4.6	3.1	.4	.0	.0		8.1	6.5	4.9	7.0	9.5	10.7
NW	5.5	3.8	2.0	.0	.0		11.2	9.0	5.8	11.9	9.9	19.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.9						3.9	.0	6.3	1.6	4.3	2.5
TOT OBS	284	228	53	6	0	571		8.0	143	122	187	119
TOT PCT	49.7	39.9	9.3	1.1	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1933-1967
(OVER-ALL) 1871-1967

AREA 0027 VLADIVOSTOK
41.7N 130.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	6.3	21.0	54.5	14.0	4.2	.0	.0	7.3	100.0	143	
0600	1.6	14.8	60.7	19.7	3.3	.0	.0	7.9	100.0	122	
1200	4.3	12.8	59.4	19.3	4.3	.0	.0	8.3	100.0	187	
1800	2.5	19.3	53.8	16.8	6.7	.8	.0	8.7	100.0	119	
TOT	22	95	327	100	26	1	0	8.0		571	
PCT	3.9	16.6	57.3	17.5	4.6	.2	.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	4.3	4.3	.0	.0		2.0
NE	12.8	2.4	3.0	9.1		8.8
E	2.4	4.9	4.3	3.0		4.7
SE	2.4	.0	.0	.0		.0
S	2.4	.0	1.8	.0		2.7
SW	7.9	.0	3.0	.0		1.8
W	11.0	.0	2.4	.0		1.2
NW	7.9	.6	2.4	2.4		2.9
VAR	.0	.0	.0	.0		.0
CALM	.0	4.9	.0	.0		4.0
TOT OBS	21	7	7	6	41	3.0
TOT PCT	51.2	17.1	17.1	14.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) > 400
AND OCCURRENCE OF NM < 3/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM < 3/8	TOTAL
	149	249	399	599	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	
NE	.0	.0	.0	.0	3.5	.0	2.4	.0	.0	.0	19.5	
E	.0	.0	.0	.0	1.8	.0	2.4	.0	.0	.0	10.4	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	
S	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	2.4	
SW	.0	.0	.0	.0	.0	.6	.0	.0	.0	2.4	7.9	
W	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	11.0	
NW	.0	.0	.0	2.4	.0	.0	2.4	.0	.0	.0	8.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	
TOT OBS	0	0	0	1	4	1	3	0	0	1	31	41
TOT PCT	.0	.0	.0	2.4	9.8	2.4	7.3	.0	.0	2.4	75.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM > 400) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	> 10	> 5	> 2	> 1	> 1/2	> 1/4	> 50 YD	> 0
> 8500	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
> 8000	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
> 7500	7.1	9.5	9.5	9.5	9.5	9.5	9.5	9.5
> 7000	9.5	11.9	11.9	11.9	11.9	11.9	11.9	11.9
> 6500	11.9	19.0	19.0	19.0	19.0	19.0	19.0	19.0
> 6000	14.3	21.4	21.4	21.4	21.4	21.4	21.4	21.4
> 5500	14.3	21.4	21.4	21.4	21.4	21.4	21.4	21.4
> 5000	14.3	21.4	21.4	21.4	21.4	21.4	21.4	21.4
> 4500	14.3	21.4	21.4	21.4	21.4	21.4	21.4	21.4
> 4000	14.3	21.4	21.4	21.4	21.4	21.4	21.4	21.4
TOTAL	6	9	9	9	9	9	9	9

TOTAL NUMBER OF OBS: 42

PCT FREQ NM < 3/8: 78.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
											OBS
	39.1	19.6	8.7	2.2	6.5	6.5	2.2	6.5	8.7	.0	46

SEPTEMBER

PERIOD: (PRIMARY) 1933-1967
(OVER-ALL) 1871-1967

AREA 0027 VLADIVOSTOK
41.7N 130.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.6	
1/2<1	PCP	.2	.4	.4	.1	.0	.2	.0	.1	.0	.0	1.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.4	.4	.1	.0	.2	.0	.1	.0	.0	1.5	
1<2	PCP	.3	.3	.1	.2	.1	.2	.2	.2	.0	.0	1.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.3	.1	.2	.1	.2	.2	.2	.0	.0	1.7	
2<5	PCP	.3	1.0	.8	.0	.0	.0	.0	.0	.0	.0	2.2	
	NO PCP	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.4	
	TOT %	.3	1.2	.8	.1	.0	.2	.0	.0	.0	.0	2.6	
5<10	PCP	.0	1.3	.2	.3	.5	.0	.0	.0	.0	.0	2.4	
	NO PCP	2.2	1.8	.9	1.8	3.2	1.2	1.5	1.7	.0	.4	14.7	
	TOT %	2.2	3.2	1.0	2.2	3.8	1.2	1.5	1.7	.0	.4	17.0	
10+	PCP	.2	.0	.2	.0	.0	.0	.2	.0	.0	.0	.6	
	NO PCP	10.8	9.2	6.2	6.0	15.2	10.6	6.2	8.9	.0	2.8	75.9	
	TOT %	11.0	9.2	6.4	6.0	15.2	10.6	6.4	8.9	.0	2.8	76.5	
TOT OBS													464
TOT PCT		14.0	14.6	9.1	8.6	19.1	12.4	8.1	10.9	.0	3.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	4-10	.0	.4	.2	.2	.0	.0	.0	.0	.0	.0	.7	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.5	.3	.3	.1	.0	.0	.0	.0	.0	1.1	
1/2<1	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.5	.0	.0	.0	.5	.0	.0	.0	.0	1.1	
	11-21	.1	.1	.3	.0	.0	.0	.0	.1	.0	.0	.5	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.7	.4	.1	.0	.5	.0	.1	.0	.0	2.0	
1<2	0-3	.0	.0	.0	.0	.0	.2	.2	.2	.0	.0	.5	
	4-10	.1	.1	.2	.4	.2	.0	.2	.2	.0	.0	1.3	
	11-21	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	.9	
	22+	.4	.1	.1	.0	.0	.0	.0	.2	.0	.0	.7	
	TOT %	.8	.5	.4	.5	.2	.2	.4	.5	.0	.0	3.5	
2<5	0-3	.2	.2	.1	.1	.2	.2	.3	.1	.0	.4	1.6	
	4-10	.5	.7	.4	.3	.5	.6	.0	.4	.0	.0	3.3	
	11-21	.2	.1	.6	.0	.0	.0	.0	.0	.0	.0	.9	
	22+	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.9	
	TOT %	1.1	1.6	1.1	.4	.6	.8	.3	.5	.0	.4	6.8	
5<10	0-3	.1	.6	.2	.4	.5	.1	.5	.5	.0	.4	3.1	
	4-10	1.0	1.2	.5	1.2	2.4	1.0	.8	.5	.0	.0	8.6	
	11-21	.3	.5	.2	.5	.6	.1	.1	.5	.0	.0	2.7	
	22+	.5	.4	.1	.0	.0	.0	.0	.1	.0	.0	1.1	
	TOT %	1.8	2.7	1.1	2.0	3.5	1.2	1.3	1.6	.0	.4	15.6	
10+	0-3	1.1	1.0	1.2	1.9	2.6	1.6	1.6	1.3	.0	2.9	15.2	
	4-10	5.7	5.7	3.9	3.3	9.0	6.4	3.8	4.6	.0	.0	42.1	
	11-21	1.7	1.6	1.1	.9	2.4	1.7	.8	1.8	.0	.0	12.1	
	22+	1.0	.3	.0	.0	.0	.0	.0	.4	.0	.0	1.6	
	TOT %	9.5	8.6	6.2	6.1	14.0	9.7	5.9	8.1	.0	2.9	71.1	
TOT OBS													546
TOT PCT		13.5	14.7	9.3	9.3	18.4	12.5	7.9	10.8	.0	3.7	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1939-1967
(OVER-ALL) 1871-1967

AREA 0027 VLADIVOSTOK
41.7N 130.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	9.1	.0	9.1	.0	.0	.0	18.2	81.8	11
06009	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	12.5	87.5	8
12015	.0	.0	.0	.0	9.1	.0	9.1	.0	.0	.0	18.2	81.8	11
18021	.0	.0	.0	6.7	6.7	6.7	6.7	.0	.0	6.7	33.3	66.7	15
TOT	0	0	0	1	4	1	3	0	0	1	10	35	45
PCT	.0	.0	.0	2.2	8.9	2.2	6.7	.0	.0	2.2	22.2	77.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.7	2.2	2.2	4.3	10.9	79.7	138
06009	1.7	.8	2.9	6.6	18.2	70.2	121
12015	1.7	3.3	9.9	8.8	16.6	64.1	181
18021	.0	.9	3.4	6.0	19.7	70.1	117
TOT	6	11	20	37	90	393	557
PCT	1.1	2.0	3.6	6.6	16.2	70.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND 3+	NM <3/8 AND 3+	TOTAL OBS
00003	.0	.0	.0	20.0	80.0	10
06009	.0	.0	.0	12.5	87.5	8
12015	.0	.0	9.1	18.2	72.7	11
18021	.0	.0	7.7	23.1	69.2	13
TOT	0	0	2	8	32	42
PCT	.0	.0	4.8	19.0	76.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
19/79	.0	.0	.0	.0	8.6	.0	.0	.0	1	5.6
70/79	.0	.0	.0	.0	.0	.0	11.1	.0	2	11.1
69/69	.0	.0	.0	.0	11.1	.0	5.6	.0	3	16.7
60/64	.0	.0	5.6	16.7	.0	27.8	5.6	.0	10	55.6
59/59	.0	.0	.0	.0	.0	.0	.0	5.6	1	5.6
50/54	.0	.0	.0	.0	.0	5.6	.0	.0	1	5.6
TOTAL	0	0	1	3	3	8	4	1	18	100.0
PCT	.0	.0	5.6	16.7	16.7	33.3	22.2	5.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
19/79	.0	.0	.0	.0	2.8	2.8	.0	.0	.0	.0
70/79	.0	5.6	.0	.0	.0	5.6	.0	.0	.0	.0
69/69	.0	11.1	.0	.0	.0	.0	4.2	1.4	.0	.0
60/64	15.3	6.9	.0	.0	5.6	16.7	.0	11.1	.0	.0
59/59	.0	1.4	4.2	.0	.0	.0	.0	.0	.0	.0
50/54	.0	.0	.0	.0	.0	.0	.0	5.6	.0	.0
TOTAL	15.3	25.0	4.2	.0	8.3	29.0	4.2	18.1	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	79	75	66	57	50	50	67.0	144
06009	82	81	77	66	61	54	50	66.7	125
12015	82	77	73	64	57	53	50	65.1	190
18021	73	72	70	63	59	50	50	63.6	117
TOT	82	79	74	64	57	50	50	65.6	576

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	28.6	28.6	14.3	14.3	14.3	67	7
06009	.0	66.7	33.3	.0	.0	.0	57	3
12015	.0	.0	.0	100.0	.0	.0	70	1
18021	.0	.0	.0	57.1	42.9	.0	78	7
TOT	0	4	3	6	4	1	70	18

PERIOD: (PRIMARY) 1933-1967
(OVER-ALL) 1871-1967

SEPTEMBER

AREA 0027 VLADIVOSTOK
41.7N 130.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	WU FOG
11/13	.0	.0	.0	.0	.0	.0	.2	.2	.2	3	.0	.6
9/13	.0	.0	.0	.0	.0	.0	.0	.4	.2	3	.0	.6
7/8	.0	.0	.0	.0	.0	.7	.0	.0	.0	1	.0	.2
6	.0	.0	.0	.0	.0	.7	.0	.0	.0	1	.0	.2
5	.0	.0	.0	.2	.4	1.7	.4	.6	.2	17	.0	3.7
4	.0	.0	.0	.2	1.9	1.0	1.1	.4	.0	26	.0	5.6
2	.0	.0	.0	2.6	3.7	3.0	1.5	.2	.2	53	.2	11.2
1	.0	.0	.0	.9	.2	.0	.0	.0	.0	5	.0	1.1
0	.0	.0	.4	11.4	9.5	5.4	1.1	.0	.0	129	.2	27.6
-1	.0	.0	.0	.2	.4	.0	.0	.0	.0	4	.0	.9
-2	.0	.4	.6	14.4	5.6	2.6	.4	.0	.0	112	.0	24.1
-3	.0	.0	.0	.4	.0	.0	.2	.0	.0	3	.0	.6
-4	.0	.4	1.1	7.1	1.7	1.1	.2	.0	.0	54	.2	11.4
-5	.2	.9	1.5	3.7	.2	.2	.0	.0	.0	31	.2	6.5
-6	.0	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
-7/-8	.0	1.1	.6	.9	.2	.0	.0	.0	.0	13	.0	2.8
-9/-10	.2	.0	.2	.0	.0	.0	.0	.0	.0	2	.0	.4
-11/-12	.6	.2	.0	.0	.0	.0	.0	.0	.0	4	.0	.9
-14/-16	.4	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.4
TOTAL	7	14	22	196	110	78	24	9	4	464	.9	460
PCT	1.5	3.0	4.7	42.2	23.7	16.8	5.2	1.9	.9	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1967

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	3.6
1-2	.0	2.7	3.6	.0	.0	.0	6.3	.0	16.1	.0	.0	.0	.0	16.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	.0	.0	.0	7.1
5-6	.0	.0	3.6	2.7	.0	.0	6.3	.0	.0	.0	4.5	.0	.0	4.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	7.1	2.7	.0	.0	12.5	3.6	16.1	7.1	4.5	.0	.0	31.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.7	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	2.7	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.6	2.7	3.6	2.7	.0	.0	12.5	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1967

SEPTEMBER

AREA 0027 VLADIVOSTOK
41.7N 130.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	3.6
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	3.6
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	.9	.0	.0	.0	.0	8.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	2.7	.0	.0	.0	.0	.0	2.7	3.6	.9	.0	.0	.0	.0	.0	4.5	
1-2	.0	3.6	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	7.1	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	2.7	.0	.0	.0	.0	2.7	.0	.0	3.6	4.5	.0	.0	.0	8.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	6.3	9.8	.0	.0	.0	.0	16.1	3.6	.9	3.6	4.5	.0	.0	.0	12.5	92.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	17.9	7.1	3.6	.0	.0	.0	28.6	
1-2	.0	28.6	3.6	.0	.0	.0	32.1	
3-4	.0	.0	14.3	.0	.0	.0	14.3	
5-6	.0	.0	10.7	14.3	.0	.0	25.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.9	35.7	32.1	14.3	.0	.0	100.0	28

PERIOD: (OVER-ALL) 1962-1967

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	20.0	5.7	8.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	3
6-7	.0	.0	2.9	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	2.9	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
16-17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	17.1	8.6	14.3	8.6	2.9	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	3
TOTAL	6	11	8	7	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	35	3
PCT	17.1	31.4	22.9	20.0	2.9	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1933-1971
(OVER-ALL) 1870-1971

OCTOBER

AREA 0027 VLADIVOSTOK
41.7N 131.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.3	.5	.0	.0	.0	.0	.0	2.8	.0	.0	2.3	.0	.0	.0	94.9
NE	.9	.0	.0	.0	.0	.0	.0	.9	.0	.0	5.8	.0	.0	.0	93.3
E	1.6	3.3	.0	.0	.0	.0	.0	4.9	.0	.0	2.5	.0	.0	.0	92.6
SE	14.1	.0	.7	.0	.0	.0	.0	14.8	.0	.0	7.7	.0	.0	.0	77.5
S	.6	.0	.9	.0	.0	.0	.0	1.5	.0	.0	6.8	.0	.0	.0	91.8
SW	.9	.0	1.7	.0	.0	.0	.0	2.6	1.7	.0	.9	.0	.0	.0	94.8
W	1.4	1.4	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	97.1
NW	1.4	1.4	.0	.0	.0	.0	.0	2.8	.0	.0	.7	.0	.0	.0	96.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.7	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	.0	.0	92.3
TOT PCT	2.4	.6	.4	.0	.0	.0	.0	3.5	.2	.0	3.3	.0	.0	.0	93.1
TOT OBS:	491														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	4.5	.0	.0	.0	92.4
06009	1.5	.0	1.3	.0	.0	.0	.0	3.0	.0	.0	2.2	.0	.0	.0	94.8
12015	2.1	1.4	.0	.0	.0	.0	.0	3.4	.0	.0	3.4	.0	.0	.0	93.1
18021	4.6	1.1	.0	.0	.0	.0	.0	5.7	1.1	.0	2.3	.0	.0	.0	90.8
TOT PCT TOT OBS:	2.6 498	.6	.4	.0	.0	.0	.0	3.6	.2	.0	3.2	.0	.0	.0	93.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.2	8.3	8.4	2.9	.4	.0		21.2	13.1		18.6	20.3	20.5	15.8	18.2	23.5	31.3	25.5
NE	1.8	5.2	3.0	.8	.0	.0		10.8	9.7		7.0	13.1	9.1	12.6	16.7	4.9	9.8	15.2
E	1.0	3.5	.9	.1	.1	.0		5.8	8.6		7.0	7.8	4.5	7.9	14.4	1.7	5.4	3.9
SE	1.6	3.3	1.8	.3	.1	.0		7.2	9.0		8.6	7.8	18.2	7.9	9.8	6.1	1.8	3.4
S	3.1	9.5	3.4	.4	.0	.0		16.3	8.1		15.6	16.3	16.7	25.5	15.7	12.5	5.9	
SW	2.6	6.5	2.9	.8	.0	.0		12.7	8.6		5.5	7.8	10.6	13.3	7.6	20.9	17.9	8.3
W	1.9	3.6	1.6	.7	.0	.0		7.3	7.8		14.8	5.9	10.6	4.0	8.3	7.0	8.9	10.3
NW	1.6	7.0	4.8	2.1	.1	.0		15.6	11.7		13.3	16.3	6.8	11.5	3.8	18.3	5.4	25.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0		9.4	4.6	3.0	1.4	6.1	1.7	7.1	2.0
TOT OBS	124	325	185	53	5	0	692		9.8		32	153	93	139	33	172	28	102
TOT PCT	17.9	47.0	26.7	7.7	.7	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	5.6	8.8	5.7	1.2	.0		21.2	13.1	20.0	16.7	22.7	26.7	
NE	4.1	4.8	1.8	.1	.0		10.8	9.7	12.0	11.9	6.8	14.0	
E	2.6	2.7	.2	.2	.0		5.8	8.6	7.7	7.3	3.8	4.2	
SE	3.8	2.2	.9	.3	.0		7.2	9.0	8.0	9.9	6.7	3.1	
S	6.6	8.7	.9	.1	.0		16.3	8.1	16.2	23.8	15.6	7.3	
SW	6.5	4.4	1.7	.1	.0		12.7	8.6	7.4	12.8	18.8	10.4	
W	3.9	2.6	.7	.1	.0		7.3	7.8	7.4	5.2	7.2	10.0	
NW	5.5	5.7	3.6	.8	.0		15.6	11.7	15.8	10.6	16.0	21.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.2						3.2	.0	5.4	1.7	2.4	3.1	
TOT OBS	289	276	107	20	0	692		9.8	183	172	203	130	
TOT PCT	41.8	39.9	15.5	2.9	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1939-1971
(OVER-ALL) 1870-1971

OCTOBER

AREA 0027 VLADIVOSTOK
41.7N 131.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	5.4	20.0	40.0	27.6	6.5	.5	.0	9.2	100.0	185
06009	1.7	15.1	48.8	28.5	5.2	.6	.0	9.5	100.0	172
12015	2.4	12.2	48.3	27.3	8.3	1.5	.0	10.3	100.0	205
18021	3.1	10.8	52.3	22.3	11.5	.0	.0	10.2	100.0	130
TOT	72	102	325	185	53	5	0	9.8		692
PCT	3.2	14.7	47.0	26.7	7.7	.7	.0	100.0		

TABLE 4

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.2	5.8	11.6	2.3		4.6
NP	8.7	.6	1.2	.0		1.5
E	2.3	1.7	1.7	1.7		4.4
SE	.0	.6	3.5	7.6		7.4
S	4.1	1.7	1.7	7.6		5.5
SW	5.2	.0	.0	2.3		2.5
W	9.3	.0	.0	.0		1.0
NW	4.7	1.2	3.5	.0		3.5
VAR	.0	.0	.0	.0		.0
CALM	4.7	.0	.0	.0		.0
TOT OBS	19	5	10	9	43	3.9
TOT PCT	44.2	11.6	23.3	20.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	2.3	3.5	1.2	.0	.0	4.7	13.4
NP	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	9.3
E	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	5.2
SE	.0	.0	.0	.0	5.2	.6	.0	.0	.0	.0	5.8
S	2.3	.0	.0	.0	1.7	2.3	.0	.0	.0	.0	8.7
SW	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	5.2
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.3
NW	.0	.0	.0	.0	.0	3.5	.0	.0	.0	.0	5.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7
TOT OBS	1	0	0	0	5	4	2	0	0	2	29
TOT PCT	2.3	.0	.0	.0	11.6	9.3	4.7	.0	.0	4.7	67.4

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.4	2.4	4.9	4.9	4.9	4.9	4.9	4.9
= OR >5000	2.4	2.4	4.9	4.9	4.9	4.9	4.9	4.9
= OR >3500	7.3	7.3	9.8	9.8	9.8	9.8	9.8	9.8
= OR >2000	9.8	14.6	19.5	19.5	19.5	19.5	19.5	19.5
= OR >1000	9.8	17.1	29.3	31.7	31.7	31.7	31.7	31.7
= OR >600	9.8	17.1	29.3	31.7	31.7	31.7	31.7	31.7
= OR >300	9.8	17.1	29.3	31.7	31.7	31.7	31.7	31.7
= OR >150	9.8	17.1	29.3	31.7	31.7	31.7	31.7	31.7
= OR >0	9.8	19.5	31.7	34.1	34.1	34.1	34.1	34.1
TOTAL	4	8	13	14	14	14	14	14

TOTAL NUMBER OF OBS: 41

PCT FREQ NH <5/8: 65.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
38.0	4.0	22.0	.0	8.0	2.0	8.0	6.0	10.0	2.0	90

PERIOD: (PRIMARY) 1939-1971
(OVER-ALL) 1870-1971

OCTOBER

AREA 0027 VLADIVOSTOK
41.7N 131.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	.6	
	TOT %	.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	.6	
1/2<1	PCP	.2	.0	.0	.0	.0	.1	.1	.0	.0	.2	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.0	.0	.0	.1	.1	.0	.0	.2	.6	
1<2	PCP	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	NO PCP	.1	.2	.0	.2	.2	.0	.0	.1	.0	.0	.8	
	TOT %	.1	.2	.0	.2	.2	.2	.0	.1	.0	.0	1.0	
2<5	PCP	.1	.1	.0	1.0	.3	.0	.0	.0	.0	.0	1.4	
	NO PCP	.2	.4	.2	.4	.4	.1	.2	.1	.0	.0	1.8	
	TOT %	.3	.5	.2	1.4	.6	.1	.2	.1	.0	.0	3.2	
5<10	PCP	.3	.0	.2	.0	.0	.1	.2	.0	.0	.0	.8	
	NO PCP	4.4	1.6	1.4	.7	3.2	2.0	1.3	2.0	.0	.2	16.8	
	TOT %	4.7	1.6	1.6	.7	3.2	2.0	1.4	2.2	.0	.2	17.6	
10+	PCP	.0	.0	.1	.1	.0	.0	.0	.2	.0	.0	.4	
	NO PCP	16.4	9.0	4.4	4.9	13.0	9.5	5.5	11.9	.0	1.8	76.4	
	TOT %	16.4	9.0	4.5	5.0	13.0	9.5	5.5	12.1	.0	1.8	76.8	
TOT OBS													
TOT PCT													
		21.9	11.3	6.3	7.3	17.4	11.9	7.2	14.5	.0	2.3	100.0	488

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.6	.2	.0	.2	.2	.4	.1	.0	.3	2.3	
	4-10	.6	.6	.2	.2	1.4	.5	.7	.9	.0		5.2	
	11-21	.5	.2	.0	.0	.2	.0	.0	.7	.0		1.6	
	22+	.2	.0	.0	.0	.0	.0	.0	.5	.0		.6	
	TOT %	1.5	1.5	.4	.2	1.7	.6	1.1	2.2	.0	.3	9.7	
1/2<1	0-3	.0	.2	.0	.0	.0	.1	.1	.0	.0	.2	.5	
	4-10	.2	.0	.0	.0	.0	.0	.1	.2	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.2	.0	.0	.0	.1	.2	.2	.0	.2	1.0	
1<2	0-3	.0	.0	.0	.3	.2	.0	.2	.0	.0	.0	.6	
	4-10	.1	.2	.0	.0	.2	.2	.0	.1	.0		.8	
	11-21	.1	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	22+	.1	.0	.0	.0	.0	.3	.0	.1	.0		.5	
	TOT %	.2	.2	.0	.3	.4	.6	.2	.2	.0	.0	2.1	
2<5	0-3	.0	.2	.0	.0	.1	.4	.0	.2	.0	.0	.8	
	4-10	.6	.3	.1	.3	.6	.4	.1	.5	.0		3.1	
	11-21	.4	.1	.0	.7	.2	.3	.1	.8	.0		2.6	
	22+	.1	.2	.0	.1	.1	.1	.0	.2	.0		.6	
	TOT %	1.1	.7	.1	1.1	1.0	1.1	.2	1.7	.0	.0	7.1	
5<10	0-3	.2	.3	.0	.0	.3	.2	.4	.2	.0	.2	1.8	
	4-10	1.6	.5	1.3	.4	1.3	.6	.2	.7	.0		6.6	
	11-21	.8	.2	.0	.2	.9	.4	.3	.3	.0		3.1	
	22+	1.1	.2	.2	.2	.0	.3	.2	.5	.0		2.9	
	TOT %	3.7	1.3	1.5	.8	2.5	1.6	1.1	1.7	.0	.2	14.4	
10+	0-3	1.0	.6	.9	1.4	2.5	1.6	1.1	1.2	.0	1.9	12.1	
	4-10	5.5	3.8	2.1	2.3	6.1	4.7	2.7	4.9	.0		32.2	
	11-21	5.1	2.5	1.0	.6	2.2	2.3	1.3	2.8	.0		17.8	
	22+	1.8	.4	.1	.1	.0	.2	.0	1.0	.0		3.6	
	TOT %	13.4	7.3	4.0	4.5	10.8	8.8	5.0	9.9	.0	1.9	65.7	
TOT OBS													
TOT PCT													
		20.2	11.2	6.1	7.0	16.3	12.8	7.8	16.1	.0	2.6	100.0	618

PERIOD: (PRIMARY) 1933-1971
(OVER-ALL) 1870-1971

OCTOBER

AREA 0027 VLADIVOSTOK
41.7N 131.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH $\geq 4/8$ AND
OCCURRENCE OF NH $< 5/8$ BY HOUR

HOUR (GMT)	000 149	150 209	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH $< 5/8$ ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	5.9	.0	5.9	.0	.0	5.9	17.6	82.4	17
06009	.0	.0	.0	.0	13.3	.0	6.7	.0	.0	6.7	26.7	73.3	15
12015	11.1	.0	.0	.0	11.1	11.1	.0	.0	.0	.0	33.3	66.7	9
18021	.0	.0	.0	.0	11.1	33.3	.0	.0	.0	.0	44.4	55.6	9
TOT	1	0	0	0	5	4	2	0	0	2	14	36	50
PCT	2.0	.0	.0	.0	10.0	8.0	4.0	.0	.0	4.0	28.0	72.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	$< 1/2$	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	9.1	.6	1.9	5.8	7.8	74.7	154
06009	8.1	.0	2.9	6.9	16.3	66.3	160
12015	9.5	.5	2.1	7.4	13.7	66.8	190
18021	12.4	3.3	1.7	8.3	23.1	51.2	121
TOT	60	6	13	44	92	410	625
PCT	9.6	1.0	2.1	7.0	14.7	65.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET) NH $\geq 4/8$ BY HOUR

HOUR (GMT)	< 150 < 500	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH $< 5/8$ AND 5+	TOTAL OBS
00003	.0	.0	15.4	7.7	76.9	13
06009	.0	.0	23.1	15.4	61.5	13
12015	14.3	14.3	42.9	.0	57.1	7
18021	.0	.0	.0	50.0	50.0	8
TOT	1	1	8	7	26	41
PCT	2.4	2.4	19.5	17.1	62.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
05/64	.0	.0	.0	.0	1.8	7.0	.0	.0	5	8.8
07/64	.0	1.8	3.5	3.5	3.5	14.0	1.8	.0	16	28.1
09/69	.0	.0	.0	7.0	9.3	7.0	1.8	7.0	16	28.1
11/74	.0	1.8	5.3	7.0	9.3	.0	.0	3.5	13	22.8
13/74	.0	.0	1.8	1.8	7.0	1.8	.0	.0	7	12.3
TOTAL	0	2	4	11	13	17	2	6	57	100.0
PCT	.0	3.5	10.9	19.3	22.8	29.8	3.5	10.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
05/64	.0	.0	1.8	4.4	.9	.0	1.8	.0	.0	.0
07/64	11.8	1.8	3.5	.4	7.5	.9	1.3	.9	.0	.0
09/69	2.6	10.1	1.3	3.5	1.8	2.6	4.4	1.8	.0	.0
11/74	8.8	7.0	3.5	2.2	1.3	.0	.0	.0	.0	.0
13/74	5.3	4.4	.0	.0	.0	.0	.0	2.6	.0	.0
TOTAL	28.5	23.2	10.1	10.5	11.4	3.5	7.5	5.3	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	71	70	58	57	43	37	37	56.8	186
06009	71	69	66	57	43	41	40	56.3	172
12015	70	68	63	55	49	41	37	55.0	205
18021	65	64	63	54	38	36	36	52.5	127
TOT	71	70	65	55	43	37	36	55.4	690

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	7.7	15.4	61.5	7.7	7.7	7.7	7.7	75	13
06009	.0	39.1	21.7	30.4	.0	8.7	6.5	2.3	65	23
12015	.0	52.9	23.5	5.9	5.9	11.8	6.2	1.7	62	17
18021	.0	.0	50.0	25.0	.0	25.0	7.4	4	4	4
TOT	0	19	13	17	2	6	67	57		

PERIOD: (PRIMARY) 1933-1971
(OVER-ALL) 1870-1971

OCTOBER

TABLE 17

AREA 0027 VLADIVOSTOK
41.7N 131.0E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2			
11/13	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	1	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	2	.0	.4
7/8	.0	.0	.0	.0	.0	.0	.4	.2	.2	.4	2	.0	.4
5	.0	.0	.0	.0	.2	.4	.2	.6	.4	.2	7	.0	1.4
4	.0	.0	.0	.0	.6	.4	1.0	2.5	.8	.6	12	.2	2.3
3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.6	29	.2	5.8
2	.0	.0	.0	.2	.2	1.4	3.1	4.9	.6	.0	1	.0	.2
1	.0	.0	.0	.0	.0	.4	.8	.6	.0	.6	54	.4	10.7
0	.0	.0	.0	.8	.6	3.5	5.6	6.0	.8	.0	9	.0	1.9
-1	.0	.0	.0	.0	.0	.4	.8	.4	.0	.0	84	1.0	16.3
-2	.0	.0	.4	1.4	2.1	6.6	6.0	2.3	.0	.0	8	.0	1.6
-3	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	91	.8	17.9
-4	.0	.0	.6	1.9	1.2	2.9	3.3	2.3	.0	.0	2	.0	.4
-5	.4	.2	.4	.6	2.7	2.9	2.1	.4	.0	.0	59	.2	12.0
-6	.0	.0	.0	.0	.0	.6	.2	.0	.0	.0	47	.0	9.7
-7/-8	.0	.2	.0	1.6	1.0	2.9	.4	.0	.0	.0	4	.2	.6
-9/-10	.0	.2	.4	.8	.6	.0	.0	.0	.0	.0	30	.2	6.0
-11/-13	.0	.4	.4	2.1	.8	.2	.0	.0	.0	.0	13	.0	2.7
-14/-16	.0	.0	.2	1.2	.0	.0	.0	.0	.0	.0	19	.0	3.9
-17/-19	.2	.0	.0	.6	.0	.0	.0	.0	.0	.0	7	.0	1.4
TOTAL	3	5	12	55	49	113	116	20	20	12	485	16	469
PCT	.6	1.0	2.5	11.3	10.1	23.3	23.9	20.6	4.1	2.5	100.0	3.3	96.7

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.0	.0	.0	.0	.0	4.0	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	.0	8.0	.0	.0	.0	8.0	.0	4.0	4.0	.0	.0	.0	8.0
3-4	.0	3.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	4.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	4.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.0	12.0	4.0	.0	.0	23.0	.0	5.0	4.0	.0	.0	.0	9.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	7.0	.0	.0	.0	.0	7.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	.0	.0	.0	8.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.0	.0	.0	.0	.0	7.0	1.0	1.0	8.0	.0	.0	.0	10.0

PERIOD: (OVER-ALL) 1963-1971

OCTOBER

AREA 0027 VLADIVOSTOK
41.7N 131.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	3.0	.0	.0	.0	.0	.0		3.0	.0	.0	.0	.0	.0	.0		.0
1-2	.0	3.0	4.0	.0	.0	.0		7.0	.0	.0	4.0	.0	.0	.0		4.0
3-4	.0	4.0	.0	.0	.0	.0		4.0	.0	.0	.0	.0	.0	.0		.0
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	3.0	7.0	4.0	.0	.0	.0		14.0	.0	.0	4.0	.0	.0	.0		4.0

HGT	W							PCT	NW							PCT	(TOTAL PCT)
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0		.0	.0	4.0	.0	.0	.0	.0		4.0	
1-2	.0	.0	4.0	.0	.0	.0		4.0	.0	.0	.0	.0	.0	.0		.0	
3-4	.0	.0	8.0	3.0	.0	.0		11.0	.0	1.0	.0	1.0	.0	.0		2.0	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	4.0	.0	.0	.0		4.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	.0	12.0	3.0	.0	.0		15.0	.0	5.0	4.0	1.0	.0	.0		10.0	92.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	12.0	16.0	.0	.0	.0	.0	28.0	085
1-2	.0	8.0	24.0	.0	.0	.0	32.0	
3-4	.0	8.0	16.0	4.0	.0	.0	28.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	4.0	4.0	.0	.0	8.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	4.0	.0	.0	.0	4.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.0	32.0	48.0	8.0	.0	.0	100.0	25

PERIOD: (OVER-ALL) 1964-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.7	17.9	7.1	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	2
6-7	.0	.0	3.6	.0	7.1	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
8-9	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	14.3	3.6	10.7	10.7	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	3
TOTAL	7	6	6	4	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	28	3
PCT	25.0	21.4	21.4	14.3	14.3	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1938-1970
(OVER-ALL) 1870-1970AREA 0027 VLADIVOSTOK
41.7N 131.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.7	.0	.0	.0	2.9	.0	.8	7.4	.0	.0	.0	.0	.0	.0	92.6
NE	2.4	.0	.0	.0	6.3	.0	.0	8.7	1.6	.0	1.6	.0	.0	.0	88.1
E	1.6	.0	1.6	.0	1.6	.0	.0	4.8	3.2	.0	3.2	.0	.0	.0	88.8
SE	8.1	.0	2.4	.0	3.2	.0	.0	13.7	.0	3.2	1.6	.0	.0	.0	84.7
S	2.3	.0	1.9	.0	.0	.0	.0	4.4	.0	.0	3.8	.0	.0	.0	91.9
SW	2.6	.0	.0	.0	.0	.0	.0	2.6	.0	.0	2.6	.0	.0	.0	94.9
W	2.9	2.9	.0	.0	.0	.0	.0	5.7	.0	.0	.0	.0	.0	.0	94.3
NW	1.2	.0	.0	.0	2.4	.0	.0	3.6	.0	.0	2.4	.0	.0	.0	94.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.9	.2	.4	.0	2.4	.0	.2	6.2	.4	.2	1.5	.0	.0	.0	91.8
TOT OBS:	453														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.7	.0	.0	.0	3.6	.0	.7	5.0	.7	.0	.7	.0	.0	.0	93.6
06009	2.3	.0	.0	.0	4.3	.0	.0	6.8	.0	.0	.0	.0	.0	.0	93.2
12015	5.0	.8	1.7	.0	.0	.0	.0	7.6	.0	.0	2.5	.0	.0	.0	89.9
18021	3.6	.0	.0	.0	1.8	.0	.0	5.4	.9	.9	2.7	.0	.0	.0	91.1
TOT PCT	2.8	.2	.4	.0	2.4	.0	.2	6.1	.4	.2	1.5	.0	.0	.0	91.9
TOT OBS:	459														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.0	9.1	9.7	5.6	.8	.0	.0	26.2	15.2	23.3	21.8	29.5	22.7	16.3	26.9	26.5	34.4	
NE	1.8	5.9	4.5	.7	.2	.0	.0	13.1	10.5	13.0	16.7	12.1	18.7	7.5	8.2	8.1	13.8	
E	1.3	3.7	1.3	.3	.0	.0	.0	6.5	8.3	7.4	9.2	4.5	6.6	11.3	4.2	2.9	5.7	
SE	2.1	3.6	.8	.2	.0	.0	.0	6.7	6.4	7.4	9.5	9.1	7.6	8.1	5.2	2.9	3.9	
S	1.7	5.8	.8	.1	.0	.0	.0	8.3	7.1	10.2	7.6	9.1	13.1	9.4	8.7	4.4	4.8	
SW	2.1	3.9	2.3	.2	.0	.0	.0	8.5	8.8	.9	5.2	.0	12.1	11.3	12.5	14.0	6.1	
W	1.9	4.3	1.2	.9	.0	.0	.0	8.3	8.7	4.6	5.2	6.1	5.6	7.5	11.1	12.5	11.4	
NW	1.7	7.1	6.6	4.1	1.0	.0	.0	20.5	14.5	23.1	20.5	26.5	11.6	26.3	22.6	28.7	18.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.9							1.9	.0	.0	4.2	3.0	2.0	2.5	.7	.0	.9	
TOT OBS	98	275	172	77	13	0	635		11.4		27	144	33	99	40	144	34	114
TOT PCT	15.4	43.3	27.1	12.1	2.0	.0	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	5.4	9.4	8.5	2.5	.4			26.2	15.2	23.7	24.4	24.6	32.6		
NE	4.1	7.0	1.5	.5	.0			13.1	10.5	16.1	17.0	8.0	12.3		
E	3.3	2.4	.7	.1	.0			6.5	8.3	8.9	6.1	5.7	5.1		
SE	4.7	1.6	.2	.2	.0			6.7	6.4	9.2	8.0	5.8	3.7		
S	4.6	3.1	.6	.1	.0			8.3	7.1	8.0	12.1	8.8	4.7		
SW	3.5	3.6	1.4	.0	.0			8.5	8.8	4.5	9.1	12.2	7.9		
W	4.2	3.0	.9	.2	.0			8.3	8.7	5.1	5.7	10.3	11.7		
NW	5.4	7.4	5.4	2.0	.2			20.5	14.5	20.9	19.3	23.4	21.1		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	1.9							1.9	.0	3.5	2.3	1.1	.7		
TOT OBS	236	238	122	35	4	635			11.4		171	132	184	148	
TOT PCT	37.2	37.5	19.2	5.5	.6	100.0					100.0	100.0	100.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1959-1970
(OVER-ALL) 1970-1970

AREA 0027 VLADIVOSTOK
41.7N 131.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	3.5	15.2	42.1	27.5	11.1	.6	.0	10.6	100.0	171
06009	2.3	15.9	44.7	23.5	12.9	.8	.0	10.4	100.0	192
12015	1.1	10.9	41.3	29.9	13.6	3.3	.0	12.7	100.0	184
18021	.7	12.8	45.9	26.4	10.8	3.4	.0	11.4	100.0	148
TOT	12	86	275	172	77	13	0	11.4		635
PCT	1.9	13.5	43.3	27.1	12.1	2.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.5	7.7	11.6	4.5		4.5
NE	.0	3.4	4.5	2.9		5.5
E	2.0	2.3	1.1	.4		2.9
SE	3.7	1.1	.3	2.3		3.1
S	1.1	.9	1.7	2.8		5.6
SW	4.6	2.6	1.4	.0		2.0
W	3.1	1.1	.0	.9		2.6
NW	11.9	2.6	6.5	1.4		3.1
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	32	19	24	13	88	3.8
TOT PCT	36.4	21.6	27.3	14.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT+NM) >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	1.4	6.8	1.7	.6	1.1	2.3	18.5	
NE	.0	.0	.0	.0	1.7	2.8	.6	.6	1.1	.0	4.0	
E	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	5.4	
SE	.3	.0	.0	.0	.3	.0	.0	1.1	.0	.0	5.7	
S	.9	.0	.0	.0	2.0	.0	.0	.0	.9	.0	2.8	
SW	.0	.0	.0	.0	.0	1.1	.0	.0	.3	.0	7.4	
W	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	4.3	
NW	.0	.0	.0	.0	6.3	1.7	.0	.0	.0	.0	14.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	1	0	0	0	11	12	2	2	3	3	55	88
TOT PCT	1.1	.0	.0	.0	12.5	13.6	2.3	2.3	3.4	2.3	62.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	# OR >10	# OR >5	# OR >2	VSBY (NM) # OR >1	# OR >1/2	# OR >1/4	# OR >50YD	# OR >0
# OR >6500	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
# OR >5000	6.8	8.0	8.0	8.0	8.0	8.0	8.0	8.0
# OR >3500	6.8	10.2	10.2	10.2	10.2	10.2	10.2	10.2
# OR >2000	15.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
# OR >1000	23.9	35.2	35.2	35.2	36.4	36.4	36.4	36.4
# OR >600	23.9	35.2	35.2	35.2	36.4	36.4	36.4	36.4
# OR >300	23.9	35.2	35.2	35.2	36.4	36.4	36.4	36.4
# OR >150	23.9	35.2	35.2	35.2	36.4	36.4	36.4	36.4
# OR >0	23.9	35.2	36.4	36.4	37.5	37.5	37.5	37.5
TOTAL	21	31	32	32	33	33	33	33

TOTAL NUMBER OF OBS: 88

PCT FREQ NH <5/8: 62.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
25.9	8.8	6.6	11.0	9.9	5.4	14.3	5.5	12.1	1.1	91

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1870-1970

NOVEMBER

AREA 0027 VLADIVOSTOK
41.7N 131.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
	NO PCP	.0	.2	.2	.1	.3	.0	.0	.2	.0	.0	1.1	
	TOT %	1.0	.8	.2	.1	.3	.0	.0	.2	.0	.0	2.6	
1/2<1	PCP	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.7	
1<2	PCP	.4	.2	.1	.3	.0	.0	.0	.4	.0	.0	1.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.2	.1	.3	.0	.0	.0	.4	.0	.0	1.5	
2<5	PCP	.1	.1	.0	.1	.2	.2	.0	.0	.0	.0	.7	
	NO PCP	.2	.0	.0	.3	.2	.0	.0	.1	.0	.0	.7	
	TOT %	.3	.1	.0	.3	.3	.2	.0	.1	.0	.0	1.3	
5<10	PCP	.3	.1	.0	.4	.2	.0	.4	.2	.0	.0	1.8	
	NO PCP	2.8	2.2	1.1	.7	1.5	1.7	1.0	3.3	.0	.0	14.3	
	TOT %	3.1	2.3	1.1	1.2	1.8	1.7	1.4	3.5	.0	.0	16.1	
10+	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	21.9	10.1	5.2	4.8	6.4	6.7	6.3	14.1	.0	2.0	77.5	
	TOT %	21.9	10.1	5.4	4.9	6.4	6.7	6.3	14.1	.0	2.0	77.7	
TOT OBS													
TOT PCT													
		26.9	14.0	6.9	6.8	8.8	8.6	7.7	18.3	.0	2.0	100.0	453

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.5	.2	.3	.3	.3	.4	.0	.0	.0	2.4	
	4-10	.8	.4	.6	.5	.5	.9	.6	.0	.0	.0	4.9	
	11-21	1.1	.3	.1	.2	.1	.2	.1	.9	.0	.0	2.9	
	22+	1.1	.0	.0	.0	.0	.0	.2	.8	.0	.0	2.0	
	TOT %	3.2	1.2	.8	.9	.9	1.4	1.0	2.7	.0	.0	12.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	TOT %	.1	.3	.1	.0	.0	.0	.0	.3	.0	.0	.8	
1<2	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.3	
	4-10	.2	.0	.1	.1	.0	.0	.2	.3	.0	.0	.8	
	11-21	.5	.2	.1	.0	.0	.0	.0	.3	.0	.0	1.0	
	22+	.3	.2	.0	.0	.0	.0	.0	.1	.0	.0	.5	
	TOT %	.9	.3	.2	.3	.0	.0	.2	.7	.0	.2	2.7	
2<5	0-3	.1	.1	.2	.0	.0	.2	.2	.0	.0	.0	.7	
	4-10	.8	1.2	.2	.2	.7	.0	.0	.4	.0	.0	3.4	
	11-21	1.1	.3	.0	.2	.0	.2	.0	.3	.0	.0	2.0	
	22+	.2	.0	.0	.0	.0	.0	.1	.2	.0	.0	.5	
	TOT %	2.2	1.5	.3	.3	.7	.3	.3	1.0	.0	.0	6.6	
5<10	0-3	.2	.4	.1	.2	.2	.3	.2	.2	.0	.2	1.9	
	4-10	.8	.3	.6	.7	.9	.4	.8	1.1	.0	.0	5.8	
	11-21	.5	.4	.1	.1	.3	.5	.2	.9	.0	.0	3.0	
	22+	1.0	.6	.3	.1	.0	.0	.0	.5	.0	.0	2.4	
	TOT %	2.4	1.8	1.2	1.1	1.4	1.3	1.1	2.7	.0	.2	13.0	
10+	0-3	.6	.9	.9	1.5	1.3	1.5	1.5	1.2	.0	1.5	10.8	
	4-10	6.7	3.8	2.0	2.0	3.9	2.5	2.7	4.8	.0	.0	28.4	
	11-21	6.7	3.5	1.1	.4	.3	1.2	1.1	3.8	.0	.0	18.1	
	22+	3.6	.3	.1	.0	.0	.2	.4	2.7	.0	.0	7.3	
	TOT %	17.6	8.4	4.1	3.9	5.5	5.5	5.5	12.6	.0	1.5	64.6	
TOT OBS													
TOT PCT													
		26.4	13.6	6.7	6.5	8.5	8.5	8.0	19.9	.0	1.9	100.0	591

NOVEMBER

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1870-1970AREA 0027 VLADIVOSTOK
41.7N 131.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	100 209	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	14.3	14.3	.0	3.6	3.6	3.6	39.3	60.7	28
06009	.0	.0	.0	.0	13.0	8.7	4.3	4.3	4.3	.0	34.8	65.2	23
12015	6.3	.0	.0	.0	6.3	6.3	.0	.0	.0	.0	18.8	81.3	16
18021	.0	.0	.0	.0	13.6	22.7	4.5	.0	4.5	4.5	50.0	50.0	22
TOT	1	0	0	0	11	12	2	2	3	2	33	56	89
PCT	1.1	.0	.0	.0	12.4	13.5	2.2	2.2	3.4	2.2	37.1	62.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	11.0	1.8	1.2	3.7	11.0	71.2	103
06009	14.8	.8	3.1	10.2	14.1	57.0	128
12015	10.1	.0	4.2	8.9	12.5	64.3	108
18021	13.7	.7	2.2	3.6	15.1	64.7	139
TOT	73	5	16	39	78	387	598
PCT	12.2	.8	2.7	6.3	13.0	64.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <30YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	3.6	10.7	35.7	53.6	28
06009	.0	.0	.0	34.8	65.2	23
12015	6.3	6.3	12.5	12.5	75.0	16
18021	.0	.0	.0	52.4	47.6	21
TOT	1	2	5	31	52	88
PCT	1.1	2.3	5.7	35.2	59.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/99	.0	.0	.0	4.1	2.0	2.0	.0	.0	4	8.2
50/94	.0	.0	.0	2.0	.0	.0	.0	.0	1	2.0
45/49	.0	.0	2.0	.0	.0	.0	2.0	4.1	4	8.2
40/44	.0	.0	.0	2.0	2.0	4.1	4.1	6.1	9	18.4
35/39	.0	2.0	.0	.0	4.1	6.1	2.0	4.1	9	18.4
30/34	.0	.0	2.0	.0	8.2	4.1	16.3	.0	15	30.6
25/29	.0	.0	.0	.0	.0	4.1	4.1	6.1	7	14.3
TOTAL	0	1	2	4	8	10	14	10	49	100.0
PCT	.0	2.0	4.1	8.2	16.3	20.4	28.6	20.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	4.1	.0	.0	.0	1.5	2.6	.0	.0
.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0
.0	1.0	1.0	.5	4.6	1.0	.0	.0	.0	.0
1.5	2.6	4.1	2.0	.0	.0	.0	8.2	.0	.0
8.7	1.5	2.0	1.0	.0	.0	.0	5.1	.0	.0
9.2	7.1	5.1	1.0	.0	.0	.0	8.2	.0	.0
8.7	3.1	.0	.0	.0	.0	.0	2.6	.0	.0
28.1	15.3	16.3	4.6	4.6	1.0	3.6	26.5	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	61	60	57	41	28	23	23	41.6	172
06009	61	59	57	41	28	23	25	41.3	132
12015	60	59	55	41	29	19	19	40.5	179
18021	57	56	55	39	25	19	18	38.9	145
TOT	61	59	55	41	28	21	18	40.6	628

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	9.1	18.2	18.2	36.4	18.2	77	11		
06009	.0	30.8	.0	15.4	23.1	30.8	75	13		
12015	.0	.0	25.0	25.0	33.3	16.7	80	12		
18021	.0	15.4	23.1	23.1	23.1	15.4	75	13		
TOT	0	7	8	10	14	10	77	49		

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1870-1970

NOVEMBER

AREA 0027 VLADIVOSTOK
41.7N 131.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	2	.0	.5
9/10	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	3	.0	.7
7/8	.0	.0	.0	.0	.0	.0	.2	.0	.0	.7	.0	4	.0	1.0
5	.0	.0	.0	.0	.0	.0	.5	.0	.2	.7	.0	6	.0	1.5
4	.0	.0	.0	.0	.2	.2	.2	.0	.7	.5	.2	9	.0	2.2
2	.0	.0	.0	.0	.5	.5	1.5	2.5	1.0	1.0	.2	29	1.0	6.2
0	.0	.0	.3	1.0	1.7	.5	3.0	3.7	1.2	1.5	.0	53	.5	12.7
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
-2	.0	.2	.2	.7	1.0	1.2	3.2	1.2	2.0	1.2	.0	45	.2	10.9
-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	1	.0	.2
-4	.0	.0	.0	.2	1.0	1.2	2.7	1.7	1.0	.2	.0	33	.0	8.2
-5	.0	.2	.5	.7	2.5	2.7	2.5	.7	.0	.0	.0	40	.0	10.0
-6	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	2	.0	.5
-7/-8	.2	1.0	.7	1.3	3.0	.7	3.2	.2	.5	.0	.0	45	.0	11.2
-9/-10	.2	1.7	.2	1.2	3.2	2.0	.7	.2	.0	.0	.0	39	.0	9.7
-11/-13	.5	2.0	1.0	2.5	3.5	1.0	.0	.0	.0	.0	.0	42	.0	10.4
-14/-16	.7	1.7	1.3	3.0	.2	.0	.0	.0	.0	.0	.0	29	.0	7.2
-17/-19	.2	1.0	1.2	.2	.0	.0	.0	.0	.0	.0	.0	11	.0	2.7
-20/-22	.0	.7	.2	.0	.2	.0	.0	.0	.0	.0	.0	5	.0	1.2
-23/-25	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.7
TOTAL	8	38	23	45	69	43	75	43	28	25	3	402	7	395
PCT	2.0	9.5	6.2	11.2	17.2	10.7	18.7	10.7	7.0	6.2	.7	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1933-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	N				PCT	1-3	4-10	NE				PCT
			11-21	22-33	34-47	48+				11-21	22-33	34-47	48+	
<1	.0	5.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.9	.0	.0	.0	.0	.0	1.9	.0	.0	2.5	.0	.0	.0	2.5
3-4	.0	1.9	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	7.5	3.8	.0	.0	11.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.5	.0	.0	.0	2.5	.0	.0	2.5	.0	.0	.0	2.5
8-9	.0	.0	.0	5.0	2.5	.0	7.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	1.9	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	2.5	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	6.9	10.0	13.1	2.5	.0	34.4	.0	.0	5.0	.0	.0	.0	5.0

HGT	1-3	4-10	E				PCT	1-3	4-10	SE				PCT
			11-21	22-33	34-47	48+				11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	3.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	2.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	3.1	2.5	.0	.0	.0	5.6

PERIOD: (OVER-ALL) 1963-1970

NOVEMBER
TABLE 18 (CONT)AREA 0027 VLADIVOSTOK
41.7N 131.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.9	.0	.0	.0	.0	1.9	.0	.6	2.7	.0	.0	.0	3.1
3-4	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	3.6	.0	.0	.0	3.6
5-6	.0	1.9	1.9	.0	.0	.0	3.8	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	2.5	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.3	3.8	.0	.0	.0	10.0	.0	.6	6.8	.0	.0	.0	9.4

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.6	.6
3-4	.0	.0	1.9	.0	.0	.0	1.9	.0	.6	.6	2.5	.0	.0	3.8	3.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	2.5	5.0	1.3	.0	.0	8.8	8.8
7	.0	.0	2.5	.0	.0	.0	2.5	.0	.0	2.5	2.5	.0	.0	5.0	5.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	.6	.0	.0	5.0	5.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	.0	.0	5.6	5.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	2.5	2.5
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	4.4	.0	.0	.0	4.4	.6	3.1	13.1	14.4	.0	.0	31.3	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGY	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	5.0	.0	.0	.0	.0	5.0	
1-2	2.5	2.5	5.0	.0	.0	.0	10.0	
3-4	.0	2.5	10.0	2.5	.0	.0	15.0	
5-6	.0	7.5	15.0	5.0	.0	.0	27.5	
7	.0	.0	12.5	2.5	.0	.0	15.0	
8-9	.0	.0	.0	5.0	2.5	.0	7.5	
10-11	.0	2.5	5.0	.0	.0	.0	7.5	
12	.0	.0	.0	7.5	.0	.0	7.5	
13-16	.0	.0	.0	5.0	.0	.0	5.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.5	20.0	47.5	27.5	2.5	.0	100.0	40

PERIOD: (OVER-ALL) 1962-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	7.3	10.9	18.2	7.3	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	4
6-7	.0	.0	1.8	10.9	.0	1.8	3.6	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
8-9	.0	.0	.0	.0	.0	.0	1.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
10-11	.0	.0	.0	.0	.0	.0	.0	1.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	13
12-13	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	15
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	1.8	1.8	3.6	3.6	3.6	3.6	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
TOTAL	2	9	11	18	6	4	3	3	3	0	0	0	0	0	0	0	0	0	0	59	6
PCT	3.6	9.1	20.0	32.7	10.9	7.3	5.5	5.5	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1933-1965
(OVER-ALL) 1903-1965

TABLE 1

AREA 0027 VLADIVOSTOK
41.7N 130.8E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.4	.0	.0	.0	7.0	.0	.0	7.5	.7	.9	1.8	.0	.0	.0	90.1
NE	3.9	.0	.0	.0	11.8	.0	.0	15.7	.4	.0	.0	.0	.0	.0	83.9
E	2.8	.0	.0	.0	5.6	16.7	.0	.0	.0	.0	.0	.0	.0	.0	75.0
SE	.0	.0	.0	.0	9.3	.0	.0	9.3	.0	.0	.0	.0	3.7	.0	86.9
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	96.9
NW	.6	.0	.0	.0	5.8	.0	.0	6.4	.0	.0	2.3	.0	1.2	.0	90.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	92.3
TOT PCT	1.0	.0	.0	.3	6.6	.0	.0	7.9	.3	.3	1.5	.0	.5	.0	89.8
TOT OBS:	392														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.8	.0	.0	.0	11.4	.0	.0	12.1	1.5	.8	.8	.0	.8	.0	84.8
06009	.0	.0	.0	.0	1.1	2.2	.0	.0	.0	.0	3.4	.0	.0	.0	93.3
12015	1.0	.0	.0	.0	3.1	.0	.0	4.1	1.0	.0	1.0	.0	1.0	.0	92.9
18021	2.6	.0	.0	.0	7.7	.0	.0	10.3	.0	.0	1.3	.0	.0	.0	88.5
TOT PCT	1.0	.0	.0	.3	6.5	.0	.0	7.8	.8	.3	1.5	.0	.5	.0	89.4
TOT OBS:	397														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	2.8	11.2	10.0	5.0	1.5	.0		30.5	13.8		33.0	28.5	28.4	29.7	28.7	33.9	42.1	27.5
NE	2.2	9.9	3.3	1.1	.1	.0		16.7	9.2		15.2	20.7	10.3	14.7	13.0	15.2	2.6	21.3
E	.7	3.2	1.4	.3	.2	.0		5.7	9.9		.0	4.4	10.3	9.4	13.0	4.5	13.2	1.9
SE	1.6	3.3	.7	.4	.0	.0		5.9	7.9		10.7	5.9	5.2	8.2	4.6	6.7	5.3	1.3
S	.9	3.0	.6	.0	.0	.0		4.4	6.7		3.6	4.8	5.2	8.2	2.8	4.5	.0	1.3
SW	1.2	2.2	.4	.0	.0	.0		3.8	5.6		3.6	4.1	.0	5.3	3.7	3.1	.0	5.0
W	1.1	3.7	2.3	1.2	.1	.0		8.3	11.5		9.8	5.9	13.8	7.1	13.0	7.1	5.3	11.9
NW	2.4	5.5	8.8	4.8	.7	.0		22.2	15.1		24.1	21.9	26.7	13.8	21.3	23.2	31.6	26.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0		.0	3.7	.0	3.5	.0	1.8	.0	3.8
TOT OBS	79	216	141	66	13	0	515		11.6		28	135	29	85	27	112	19	80
TOT PCT	15.3	41.9	27.4	12.8	2.5	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	03	06	12	18
N	7.2	13.5	6.8	2.5	.4		30.5	13.8		29.3	29.4	32.9	30.3	
NE	7.2	7.8	1.0	.6	.1		16.7	9.2		19.8	13.6	14.7	17.7	
E	1.8	3.4	.3	.2	.0		5.7	9.9		3.7	9.6	6.1	4.0	
SE	2.9	2.6	.0	.4	.0		5.9	7.9		6.7	7.5	6.3	2.0	
S	2.9	1.3	.2	.0	.0		4.4	6.7		4.6	7.5	4.1	1.0	
SW	2.6	1.2	.0	.0	.0		3.8	5.6		4.0	3.9	3.2	4.0	
W	3.3	3.0	1.4	.7	.0		8.3	11.5		6.6	8.8	8.3	10.6	
NW	4.9	6.9	7.8	2.6	.1		22.2	15.1		22.2	17.1	22.8	27.3	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	2.5						2.5	.0		3.1	2.6	1.4	3.0	
TOT OBS	182	204	90	36	3	515		11.6		163	114	139	99	
TOT PCT	35.3	39.6	17.5	7.0	.6		100.0			100.0	100.0	100.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1935-1965
(OVER-ALL) 1903-1965

AREA 0027 VLADIVOSTOK
41.7N 130.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	3.1	10.4	41.7	32.5	10.4	1.8	.0	11.4	100.0	163
06009	2.6	19.3	41.2	26.3	9.6	.9	.0	10.0	100.0	114
12015	1.4	10.1	39.6	27.3	18.0	3.6	.0	13.2	100.0	139
18021	3.0	13.1	46.5	20.2	13.1	4.0	.0	11.6	100.0	99
TOT	13	46	216	141	66	13	0	11.6		515
PCT	2.5	12.8	41.9	27.4	12.8	2.5	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	19.1	3.2	3.2	4.1		2.3
NE	4.1	.0	2.3	1.4		3.7
E	3.6	.0	.0	.0		.5
SE	2.3	.0	2.7	9.5		6.0
S	5.0	.0	2.7	.0		2.8
SW	1.8	.0	1.8	.0		2.5
W	3.6	.0	.0	1.4		2.5
NW	22.3	2.3	5.9	2.3		2.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	34	3	10	8	55	2.8
TOT PCT	61.8	5.5	18.2	14.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	2500 4999	3000 6499	3500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	4.1	.0	.0	1.4	1.8	.0	22.3	
NE	.0	.0	.0	.0	1.4	.0	.0	.5	.0	.0	5.9	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	
SE	1.8	.0	.0	.0	.0	4.5	.0	.0	.0	.0	4.1	
S	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	6.8	
SW	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	1.8	
W	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	3.6	
NW	.0	.0	.0	1.8	1.8	.0	2.3	.0	.0	.0	26.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	1	0	0	1	4	4	2	1	1	0	41	55
TOT PCT	1.8	.0	.0	1.8	7.3	7.3	3.6	1.8	1.8	.0	74.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>5000	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
>3500	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
>2000	8.9	14.3	14.3	14.3	14.3	14.3	14.3	14.3
>1000	12.5	23.2	23.2	23.2	23.2	23.2	23.2	23.2
>600	14.3	25.0	25.0	25.0	25.0	25.0	25.0	25.0
>300	14.3	25.0	25.0	25.0	25.0	25.0	25.0	25.0
>150	14.3	25.0	25.0	25.0	25.0	25.0	25.0	25.0
>0	14.3	25.0	25.0	25.0	25.0	25.0	25.0	25.0
TOTAL	8	14	14	14	14	14	14	14

TOTAL NUMBER OF OBS: 56

PCT FREQ NM <5/8: 75.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
41.7	20.0	1.7	1.7	5.0	6.7	8.3	3.3	10.0	1.7	60

PERIOD: (PRIMARY) 1933-1965
(OVER-ALL) 1903-1965

DECEMBER

AREA 0027 VLADIVOSTOK
41.7N 130.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	1.0	.0	.3	.0	.0	.0	.4	.0	.0	2.0	
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	TOT %	.6	1.0	.0	.3	.0	.0	.0	.4	.0	.0	2.3	
1/2<1	PCP	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.5	
1<2	PCP	.3	.3	.6	.1	.0	.0	.0	.3	.0	.0	1.5	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	TOT %	.4	.3	.6	.1	.0	.0	.0	.4	.0	.0	1.8	
2<5	PCP	.8	.5	.3	.0	.0	.0	.0	.3	.0	.0	1.8	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	TOT %	.9	.5	.3	.0	.0	.0	.0	.4	.0	.0	2.0	
5<10	PCP	.5	.3	.0	.3	.0	.0	.0	.0	.0	.0	1.0	
	NO PCP	4.0	1.9	1.5	1.4	.1	.6	2.6	4.2	.0	.5	16.9	
	TOT %	4.5	2.2	1.5	1.7	.1	.6	2.6	4.2	.0	.5	17.9	
10+	PCP	.0	.3	.3	.0	.0	.0	.0	.5	.0	.0	1.0	
	NO PCP	22.4	11.8	1.9	4.5	5.2	4.0	5.6	16.2	.0	2.8	74.4	
	TOT %	22.4	12.1	2.2	4.5	5.2	4.0	5.6	16.7	.0	2.8	75.4	
TOT OBS													
TOT PCT													
		29.0	16.3	4.6	6.6	5.3	4.6	8.1	22.1	.0	3.3	100.0	391

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.7	.0	.2	.0	.0	.0	.3	.0	.0	.0	
	11-21	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
	22+	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.7	.9	.0	.2	.0	.0	.0	.1	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.4	
	11-21	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.4	
	TOT %	.4	.2	.0	.2	.0	.0	.0	.2	.0	.0	1.3	
1<2	0-3	.0	.2	.0	.0	.0	.1	.1	.0	.0	.0	.4	
	4-10	.2	.4	.3	.2	.1	.0	.0	.2	.0	.0	1.6	
	11-21	.3	.1	.3	.0	.0	.0	.0	.3	.0	.0	1.1	
	22+	.3	.1	.1	.0	.0	.0	.0	.1	.0	.0	.7	
	TOT %	.9	.9	.8	.2	.1	.1	.1	.7	.0	.0	3.8	
2<5	0-3	.4	.0	.0	.0	.0	.0	.0	.2	.0	.0	.7	
	4-10	.8	.9	.3	.1	.2	.2	.2	.3	.0	.0	3.1	
	11-21	.7	.3	.1	.0	.0	.0	.1	.1	.0	.0	1.3	
	22+	.8	.1	.0	.0	.0	.0	.2	.2	.0	.0	1.3	
	TOT %	2.7	1.3	.4	.1	.2	.2	.6	.9	.0	.0	6.4	
5<10	0-3	.7	.2	.4	.4	.0	.2	.4	.7	.0	.4	3.6	
	4-10	1.6	1.1	.9	.6	.1	.1	.8	1.6	.0	.0	6.7	
	11-21	1.6	.2	.0	.4	.0	.2	.7	.9	.0	.0	4.0	
	22+	.1	.3	.0	.0	.0	.0	.3	.6	.0	.0	1.3	
	TOT %	3.9	1.9	1.3	1.4	.1	.6	2.2	3.7	.0	.4	15.6	
10+	0-3	2.0	2.0	.3	1.3	1.0	1.0	.7	1.9	.0	2.4	12.7	
	4-10	7.9	6.8	1.7	1.9	2.8	2.2	2.8	3.8	.0	.0	30.0	
	11-21	7.2	1.7	.1	.2	.7	.2	1.4	6.5	.0	.0	18.0	
	22+	4.7	.8	.0	.4	.0	.0	.4	3.6	.0	.0	10.0	
	TOT %	21.8	11.4	2.1	3.9	4.5	3.4	5.3	15.7	.0	2.4	70.7	
TOT OBS													
TOT PCT													
		30.4	16.6	4.7	6.2	4.9	4.3	8.2	21.8	.0	2.9	100.0	450

PERIOD: (PRIMARY) 1933-1965
(OVER-ALL) 1903-1965

DECEMBER

AREA 0027 VLADIVOSTOK
41.7N 130.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	3.7	11.1	7.4	3.7	3.7	.0	.0	29.6	70.4	27
06009	.0	.0	.0	.0	7.1	7.1	7.1	.0	7.1	.0	28.6	71.4	14
12015	16.7	.0	.0	.0	16.7	16.7	.0	.0	.0	.0	50.0	50.0	6
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	10
TOT	1	0	0	1	5	4	2	1	1	0	15	42	97
PCT	1.8	.0	.0	1.8	8.8	7.0	3.5	1.8	1.8	.0	26.3	73.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	< 1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	2.8	2.1	4.3	5.0	7.8	78.0	141
06009	1.0	1.0	1.9	8.7	21.2	66.3	104
12015	2.5	2.5	4.2	5.0	18.3	67.5	120
18021	2.2	1.1	4.4	7.7	18.7	65.9	91
TOT	10	8	17	29	72	320	456
PCT	2.2	1.8	3.7	6.4	15.8	70.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOURL (GMT)	< 150 < 50YD	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.0	3.7	25.9	70.4	27
06009	.0	.0	.0	28.6	71.4	14
12015	.0	.0	.0	40.0	60.0	6
18021	.0	.0	.0	.0	100.0	10
TOT	0	0	1	13	42	56
PCT	.0	.0	1.8	23.2	75.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	3.4	3.4	.0	2	6.9
40/44	.0	.0	.0	.0	17.2	.0	.0	.0	5	17.2
35/39	.0	.0	.0	.0	6.9	.0	.0	17.2	7	24.1
30/34	.0	.0	.0	.0	17.2	6.9	3.4	.0	8	27.6
25/29	.0	.0	.0	.0	3.4	6.9	.0	.0	3	10.3
20/24	.0	.0	3.4	.0	.0	.0	3.4	.0	2	6.9
15/19	.0	.0	.0	3.4	3.4	.0	.0	.0	2	6.9
TOTAL	0	0	1	1	14	5	3	5	29	100.0
PCT	.0	.0	3.4	3.4	48.3	17.2	10.3	17.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.0	.0	6.9	.0	.0	.0	.0	.0	.0
40/44	.0	3.4	3.4	3.4	3.4	.0	.0	3.4	.0	.0
35/39	8.6	.0	.0	4.3	2.6	.0	.0	8.6	.0	.0
30/34	1.7	1.7	.0	3.4	.0	.0	5.2	15.5	.0	.0
25/29	5.2	1.7	.0	.0	.0	.0	2.6	.9	.0	.0
20/24	6.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
15/19	2.6	.0	.0	.0	.0	.0	.0	4.3	.0	.0
TOTAL	25.0	6.9	3.4	18.1	6.0	.0	7.8	32.8	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	50	48	45	33	14	6	4	31.5	158
06009	50	48	43	32	18	7	7	30.4	108
12015	48	47	42	30	12	9	9	29.2	133
18021	46	45	41	30	12	6	6	28.9	98
TOT	50	48	43	32	13	7	4	30.1	497

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	54.5	18.2	9.1	18.2	75	11
06009	.0	.0	16.7	16.7	33.3	33.3	85	6
12015	.0	25.0	25.0	25.0	.0	25.0	72	4
18021	.0	12.5	75.0	12.5	.0	.0	86	8
TOT	0	2	14	5	3	5	74	29

DECEMBER

PERIOD: (PRIMARY) 1933-1965
(OVER-ALL) 1903-1965

AREA 0027 VLADIVOSTOK
41.7N 130.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF POG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W POG	WO POG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	1	.0	.3
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	.0	2	.0	.6
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	2	.0	.6
5	.0	.0	.0	.0	.0	.0	.0	.0	.3	.6	.3	.0	.0	4	.0	1.3
4	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.3	.3	.6	.0	9	.0	2.8
2	.0	.0	.0	.0	.0	.0	.0	.3	.3	1.6	.6	.6	.0	11	.0	3.4
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	2	.0	.6
0	.0	.0	.0	.0	.0	.0	.6	.6	1.6	2.2	2.2	.3	.0	24	.0	7.5
-1	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	.0	.0	2	.0	.6
-2	.0	.0	.0	.0	.0	.0	.6	1.3	2.5	.9	.0	.6	.0	19	.0	6.0
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1	.0	.3
-4	.0	.0	.0	.0	.0	.0	1.6	1.6	2.5	2.8	1.9	.0	.0	33	.0	10.3
-5	.0	.0	.0	.0	.0	.9	2.2	1.6	3.8	2.5	.9	.0	.3	39	.0	12.2
-6	.0	.0	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	3	.0	.9
-7/-8	.0	.0	.0	.0	.0	1.3	2.2	3.8	1.6	2.8	.0	.0	.0	37	.3	11.3
-9/-10	.0	.0	.0	.0	.3	1.3	3.4	1.6	3.1	1.3	.0	.3	.0	36	.0	11.3
-11/-13	.0	.0	.0	.6	2.2	1.6	3.1	3.8	2.8	.6	.0	.0	.0	47	.6	14.1
-14/-16	.0	.0	.0	.0	1.9	1.6	2.2	.3	.6	.0	.0	.0	.0	21	.0	6.6
-17/-19	.0	.0	.3	.6	.9	.3	1.6	.0	.0	.0	.0	.0	.0	12	.0	3.8
-20/-22	.0	.0	.0	.3	.6	.3	.0	.0	.0	.0	.0	.0	.0	5	.0	1.6
-23/-25	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	4	.3	.9
-26/-30	.3	.3	.6	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	5	.0	1.6
TOTAL	1	1	5	5	19	25	59	48	67	52	24	11	2	319	4	315
PCT	.3	.3	1.6	1.6	6.0	7.6	18.5	15.0	21.0	16.3	7.5	3.4	.6	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1965

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	2.5	.0	.0	.0	2.5	.0	.0	.8	.0	.0	.0	.8
1-2	.0	2.5	2.5	.0	.0	.0	5.0	.0	.8	3.3	.0	.0	.0	4.2
3-4	.0	3.3	6.7	2.5	.0	.0	12.5	.0	.0	.0	.0	.0	.0	.8
5-6	.0	.0	5.8	.0	.0	.0	5.8	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	2.5	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	2.5	.0	2.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.8	17.5	5.0	2.5	.0	30.8	.0	.8	4.2	.8	.0	.0	5.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	6.7	3.3	.0	.0	.0	10.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	6.7	3.3	.0	.0	.0	10.0

PERIOD: (OVER-ALL) 1963-1965

DECEMBER
TABLE 18 (CONT)AREA 0027 VLADIVOSTOK
41.7N 130.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	3.3
1-2	.0	.0	6.7	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	3.3	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	10.0	.0	.0	.0	10.0	.0	3.3	.0	.0	.0	.0	.0	.0	3.3

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	3.3	
1-2	.0	.0	3.3	.0	.0	.0	3.3	.0	.0	.0	7.5	.0	.0	.0	.0	7.5	
3-4	.0	.0	2.5	.0	.0	.0	2.5	.0	.0	.0	4.2	3.3	.0	.0	.0	7.5	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	6.7	.0	.0	.0	10.8	
7	.0	.0	3.3	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.8	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.8	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	9.2	.0	.0	.0	9.2	.0	.0	3.3	15.8	10.8	.8	.0	.0	30.8	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.3	3.3	3.3	.0	.0	.0	10.0	
1-2	.0	10.0	26.7	.0	.0	.0	36.7	
3-4	.0	3.3	13.3	6.7	.0	.0	23.3	
5-6	.0	.0	13.3	6.7	.0	.0	20.0	
7	.0	.0	3.3	3.3	.0	.0	6.7	
8-9	.0	.0	.0	.0	3.3	.0	3.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.3	16.7	60.0	16.7	3.3	.0	100.0	30

PERIOD: (OVER-ALL) 1964-1965

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	21.9	18.8	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	3
6-7	.0	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
8-9	.0	.0	.0	.0	3.1	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.1	21.9	3.1	12.5	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	3
TOTAL	1	14	7	6	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	32	4
PCT	3.1	43.8	21.9	18.8	6.3	3.1	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1927-1971
(OVER-ALL) 1870-1971

ANNUAL

AREA 0027 VLADIVOSTOK
41.7N 130.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	6.5	*	.9	.0	2.5	.0	.1	9.9	.2	.1	13.0	.0	.4	.0	76.6
NE	7.9	.0	1.3	.0	4.4	.0	.0	13.7	.4	.0	13.5	.0	.0	.0	70.5
E	6.6	.4	1.8	.5	3.5	.0	.0	14.7	.4	.1	13.6	.0	.0	.0	69.3
SE	7.5	.2	.9	.0	7.5	.0	.0	16.1	.0	.4	14.3	.0	.4	.0	69.0
S	2.7	.0	.7	.0	2.9	.0	.0	6.2	*	.0	2.6	.1	.1	.0	81.0
SW	2.4	.0	.3	.0	.9	.0	.0	3.7	.2	.0	11.4	.0	.2	.0	84.4
W	1.3	.4	.4	.0	1.7	.0	.0	3.5	.0	.0	9.9	.0	.3	.0	86.2
NW	2.1	.4	.1	.0	1.3	.0	.0	3.9	*	.0	10.3	.0	.2	.0	85.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7	.0	.7	.0	.0	.0	.0	2.7	.0	.0	18.6	.0	.0	.0	78.7
TOT PCT	4.6	.1	.8	*	2.6	.0	*	8.2	.2	.1	12.8	*	.2	.0	78.6
TOT OBS:	5517														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	3.2	.2	.9	.0	3.2	.0	.1	7.5	.3	.1	12.9	.0	.3	.0	79.0
06009	4.7	.0	.5	.1	2.2	.0	.0	7.4	.0	.0	11.7	.0	.2	.0	80.8
12015	5.3	.2	1.1	.0	1.9	.0	.0	8.5	.2	.1	11.3	.0	.3	.0	79.7
18021	5.7	.1	.6	.0	3.5	.0	.0	9.8	.3	.2	16.3	.1	.1	.0	73.3
TOT PCT	4.6	.1	.8	*	2.7	.0	*	8.2	.2	.1	12.8	*	.2	.0	78.5
TOT OBS:	5645														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	2.2	7.8	5.7	2.7	.4	.0		18.8	10.7		21.0	17.9	19.0	16.1	16.9	17.5	22.8	24.8
NE	2.3	6.6	2.6	.6	*	.0		12.1	8.6		9.9	15.0	11.7	11.9	8.5	9.8	8.5	14.5
E	1.8	4.7	1.6	.3	.1	.0		8.5	8.3		9.8	11.0	8.2	8.2	11.0	6.6	9.3	7.0
SE	2.3	5.8	1.3	.2	*	.0		9.6	6.8		8.4	10.2	10.4	11.6	12.0	9.6	9.7	5.4
S	3.4	8.7	1.9	.1	.0	.0		14.2	6.7		11.6	14.1	15.4	22.1	12.4	13.9	10.6	7.1
SW	2.2	6.8	1.7	.1	*	.0		10.8	6.9		7.6	9.2	9.7	11.4	9.2	14.3	8.8	8.4
W	1.7	4.2	1.3	.3	*	.0		7.4	7.7		9.1	4.4	8.1	4.8	12.1	9.5	9.0	9.1
NW	1.7	5.6	4.2	2.1	.4	.0		14.0	10.5		17.3	13.1	13.5	9.6	12.3	15.5	16.0	17.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.6							4.6	.0		5.1	5.0	4.0	4.1	5.6	3.2	5.3	5.9
TOT OBS								7337	8.8		314	1718	309	1332	351	1821	338	1154
TOT PCT	22.2	50.2	20.2	6.4	1.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	5.7	7.5	4.2	1.3	.1		18.8	10.7	18.4	16.6	17.4	24.2	
NE	5.6	5.2	1.1	.2	*		12.1	8.6	14.1	11.7	9.6	13.2	
E	4.5	3.1	.8	.1	*		8.5	8.3	10.8	8.2	7.4	7.6	
SE	6.0	3.1	.4	.1	.0		9.6	6.8	10.0	11.4	10.0	6.4	
S	8.5	5.0	.6	*	.0		14.2	6.7	13.6	21.0	13.7	7.9	
SW	6.2	3.9	.6	*	.0		10.8	6.9	9.0	11.1	13.5	8.5	
W	4.1	2.6	.6	.1	*		7.4	7.7	5.2	5.5	9.9	9.1	
NW	4.7	5.0	3.2	1.0	.1		14.0	10.5	13.7	10.5	14.9	17.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.6						4.6	.0	5.1	4.1	3.6	5.8	
TOT OBS						7337		8.8	2032	1841	2172	1492	
TOT PCT	49.9	35.5	11.6	2.8	.2		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1927-1971
(OVER-ALL) 1870-1971

ANNUAL

AREA 0027 VLADIVOSTOK
41.7N 130.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4R*	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	5.1	19.2	48.8	20.2	5.8	.9	.0	8.5	100.0	2032
06009	4.1	18.8	51.7	19.6	5.4	.5	.0	8.3	100.0	1641
12015	3.6	14.7	52.3	20.6	7.6	1.3	.0	9.4	100.0	2172
18021	5.8	18.9	47.1	19.9	6.8	1.5	.0	8.8	100.0	1492
TOT								8.8		7337
PCT	4.6	17.6	50.2	20.2	6.4	1.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	10.1	2.7	4.2	5.0		4.3
NE	3.5	.9	1.6	3.2		4.7
E	2.0	1.0	2.7	5.0		4.2
SE	1.5	1.0	2.5	4.5		4.7
S	2.5	.9	2.4	6.3		4.2
SW	2.4	.5	1.7	3.0		3.7
W	5.2	.6	.9	2.9		3.5
NW	9.9	.7	4.3	1.8		3.2
VAR	.0	.0	.0	.0		.0
CALM	1.6	.4	.3	.3		.9
TOT OBS					545	4.3
TOT PCT	38.6	8.8	20.6	32.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT>NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.7	.0	.0	.5	2.2	1.6	.9	.2	.4	.6	15.0	
NE	.4	.2	.1	.1	1.4	1.1	.3	.1	.4	.0	5.2	
E	.8	.0	.6	.6	1.4	2.1	.8	.0	.2	.0	4.1	
SE	1.5	.0	.1	.2	1.3	1.1	.9	.1	.0	.0	4.4	
S	2.5	.0	.4	1.0	.7	1.1	.2	.3	.1	.3	5.5	
SW	.7	.0	.0	.0	.5	1.6	.3	.2	.8	.2	4.1	
W	1.2	.0	.1	.0	.8	.6	.4	.0	.0	.0	6.4	
NW	.3	.2	.9	1.1	1.3	.7	1.2	.0	.0	.0	11.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	
TOT OBS											545	
TOT PCT	8.5	.3	1.3	3.5	9.7	9.8	5.0	.8	1.2	1.1	58.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	1.4	1.7	2.2	2.2	2.2	2.2	2.2	7.2
>3000	2.1	2.5	3.0	3.0	3.0	3.0	3.0	9.0
>2500	5.5	7.2	8.1	8.1	8.1	8.1	8.1	8.1
>2000	9.7	15.4	17.7	18.1	18.3	18.3	18.3	18.3
>1000	12.2	21.2	25.7	26.8	27.6	27.6	27.6	27.6
>500	13.2	24.2	29.0	30.2	31.0	31.0	31.0	31.0
>300	13.3	25.2	30.2	31.3	32.1	32.3	32.3	32.3
>150	13.3	25.3	30.5	31.6	32.4	32.6	32.6	32.6
>0	13.3	25.5	31.6	32.9	34.3	36.4	40.1	41.0

TOTAL NUMBER OF OBS: 556

PCT FREQ NM <5/8: 59.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
31.1	10.4	7.0	5.2	3.9	3.9	8.3	5.7	17.1	7.5	649

PERIOD: (PRIMARY) 1927-1971
(OVER-ALL) 1870-1971

ANNUAL

AREA 0027 VLADIVOSTOK
41.7N 130.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.3	.2	.2	.1	*	*	.1	.0	*	1.2	
	NO PCP	.5	.9	.9	1.0	1.2	.8	.3	.2	.0	.5	6.5	
	TOT %	.8	1.2	1.1	1.2	1.3	.8	.4	.3	.0	.5	7.6	
1/2<1	PCP	.2	.3	.3	.4	.1	.1	*	*	.0	.1	1.4	
	NO PCP	.2	.4	.2	.1	.2	.7	*	*	.0	.1	1.5	
	TOT %	.4	.7	.5	.5	.3	.2	.1	.1	.0	.1	2.9	
1<2	PCP	.3	.4	.3	.3	.2	.1	*	.1	.0	*	1.8	
	NO PCP	.1	.1	.2	.2	.3	.1	.1	.1	.0	.1	1.5	
	TOT %	.5	.6	.5	.5	.5	.3	.1	.2	.0	.1	3.2	
2<5	PCP	.3	.5	.3	.4	.2	.1	*	.1	.0	.0	1.9	
	NO PCP	.2	.3	.3	.3	.3	.2	.1	.2	.0	.2	2.0	
	TOT %	.5	.7	.6	.7	.5	.3	.2	.2	.0	.2	3.9	
5<10	PCP	.4	.3	.1	.2	.2	*	.1	.1	.0	*	1.5	
	NO PCP	3.0	2.1	1.8	1.8	3.3	2.3	1.5	2.3	.0	.7	18.7	
	TOT %	3.4	2.3	1.9	2.0	3.5	2.4	1.6	2.4	.0	.8	20.2	
10+	PCP	*	.1	.1	.1	.1	*	*	.1	.0	*	.5	
	NO PCP	13.3	7.0	3.9	4.4	8.7	7.0	4.9	10.2	.0	2.2	61.6	
	TOT %	13.3	7.1	4.0	4.5	8.8	7.0	4.9	10.3	.0	2.2	62.1	
TOT OBS													5493
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.4	.3	.3	.4	.2	.2	.1	.0	.6	2.7	
	4-10	.4	.8	.6	.8	.7	.6	.3	.2	.0		4.5	
	11-21	.2	.2	.1	.1	.2	.1	.1	.1	.0		1.1	
	22+	.2	.0	*	*	*	*	*	.1	.0		.4	
	TOT %	1.0	1.3	1.1	1.2	1.3	1.0	.6	.6	.0	.6	8.7	
1/2<1	0-3	.1	.2	.1	.2	.1	.1	*	*	.0	.1	1.0	
	4-10	.3	.3	.2	.3	.2	.2	.1	.1	.0		1.6	
	11-21	.1	.2	.2	*	*	*	.0	*	.0		.5	
	22+	*	*	*	*	.0	*	.0	*	.0		.2	
	TOT %	.4	.7	.5	.6	.3	.3	.1	.2	.0	.1	3.3	
1<2	0-3	.1	.1	.1	.2	.3	.2	.1	.1	.0	.2	1.3	
	4-10	.3	.4	.3	.3	.4	.2	.1	.1	.0		2.2	
	11-21	.2	.2	.2	.1	.1	*	*	.1	.0		.8	
	22+	.2	.1	*	*	.0	*	.0	.1	.0		.4	
	TOT %	.7	.8	.6	.6	.7	.4	.3	.4	.0	.2	4.7	
2<5	0-3	.3	.2	.2	.2	.3	.2	.2	.3	.0	.4	2.4	
	4-10	.6	.8	.6	.6	.7	.4	.2	.4	.0		4.3	
	11-21	.4	.2	.2	.2	.1	.2	.1	.2	.0		1.7	
	22+	.2	.1	.1	*	*	.0	*	.1	.0		.6	
	TOT %	1.6	1.4	1.0	1.0	1.2	.8	.5	1.0	.0	.4	8.9	
5<10	0-3	.4	.4	.4	.4	.7	.4	.4	.3	.0	.7	4.1	
	4-10	1.3	1.1	1.0	1.1	1.9	1.3	.8	.9	.0		9.2	
	11-21	.7	.4	.4	.3	.4	.3	.2	.6	.0		3.3	
	22+	.6	.2	.1	*	*	*	.1	.3	.0		1.3	
	TOT %	2.9	2.0	1.8	1.8	3.1	2.1	1.4	2.1	.0	.7	17.9	
10+	0-3	1.1	1.1	.9	1.1	1.7	1.2	.9	1.0	.0	2.2	11.2	
	4-10	3.0	3.4	2.2	2.6	3.1	4.2	2.7	4.0	.0		29.3	
	11-21	4.0	1.5	.5	.4	1.1	1.0	.8	3.0	.0		12.2	
	22+	1.8	.3	*	.1	.1	*	.2	1.4	.0		3.8	
	TOT %	11.9	6.3	3.6	4.2	7.9	6.4	4.5	9.4	.0	2.2	56.5	
TOT OBS													6524
TOT PCT													100.0

PERIOD: (PRIMARY) 1927-1971
(OVER-ALL) 1870-1971

ANNUAL

TABLE 10

AREA 0027 VLADIVOSTOK
41.7N 130.9E

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	2.0	.6	.9	5.3	9.8	9.3	5.2	.9	1.2	1.8	37.0	63.0	200
06009	10.6	.0	1.7	.5	0.2	9.8	3.5	.4	1.0	.6	34.2	65.8	154
12015	9.2	.0	2.4	3.2	10.5	6.8	3.8	1.4	1.4	.0	38.8	61.2	120
18021	17.5	.5	.6	5.1	6.8	9.7	3.2	.0	.4	.9	44.7	55.3	135
TOT PCT	8.3	.3	1.2	3.2	8.9	9.4	4.6	.7	1.1	1.0	38.9	61.1	609 100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	8.4	3.2	3.5	7.3	16.2	61.4	1801
06009	8.5	2.5	4.4	8.1	18.4	58.1	1551
12015	7.4	3.2	5.5	10.4	19.4	53.9	1940
18021	11.5	4.3	5.3	9.4	18.9	50.6	1372
TOT PCT	8.8	3.3	4.7	8.8	18.1	56.3	6664 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOURL (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	2.1	6.4	24.7	20.9	54.4	181
06009	10.9	12.6	18.3	20.9	60.8	138
12015	8.1	11.3	24.1	17.4	58.6	113
18021	17.3	18.5	29.1	20.2	50.7	124
TOT PCT	8.4	11.1	23.6	21.2	55.2	556 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/94	.0	.0	.0	.0	.2	.2	.0	.0	.5	
75/79	.0	.0	.0	.0	.5	1.3	.3	.8	2.8	
70/74	.0	.0	.0	.0	.0	1.3	3.0	3.8	6.7	
65/69	.0	.0	.0	.0	1.1	2.2	2.7	2.5	8.4	
60/64	.0	.1	.8	1.7	.3	3.5	1.3	1.5	9.2	
55/59	.0	.0	.0	.9	.8	.8	2.5	3.2	8.0	
50/54	.0	.1	.4	.9	.8	1.1	.6	5.8	9.9	
45/49	.0	.0	.3	.6	1.5	.8	.7	3.5	7.5	
40/44	.0	.1	.1	.4	2.7	2.4	1.4	1.9	9.0	
35/39	.0	.2	.4	.4	1.6	1.1	1.0	3.0	7.7	
30/34	.0	.1	.3	.6	3.2	1.8	4.3	3.3	13.6	
25/29	.0	.0	.0	.5	1.4	1.4	.8	2.7	6.8	
20/24	.0	.0	.4	.5	.5	.4	2.0	1.2	5.0	
15/19	.0	.0	.0	.7	2.9	.0	.0	.0	3.7	
10/14	.0	.0	.0	.4	.0	.5	.0	.0	1.3	
TOTAL PCT	.0	.6	2.8	7.6	17.3	17.5	20.7	32.3	438	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.1	.4	.0	.0	.0
.0	.1	.4	.4	1.0	.8	.0	.0	.0	.0
.5	.5	1.3	.9	2.0	1.0	.0	.3	.0	.0
.6	1.3	1.9	1.9	1.5	.1	.8	.2	.0	.0
2.3	.7	.6	.6	1.3	2.2	.4	1.0	.0	.0
.8	1.3	1.4	1.6	.6	1.3	.5	.4	.0	.0
.7	1.6	2.4	.9	1.6	.9	.5	.0	.5	.5
1.1	.7	1.5	.2	2.1	.7	.7	.5	.0	.5
1.4	1.2	.8	.6	.9	1.2	1.3	.0	.0	.0
1.8	.5	.6	1.7	.8	.2	.7	1.4	.0	.4
2.7	2.9	.8	.8	1.2	.4	1.4	2.7	.0	.7
2.7	1.2	.5	.5	.4	.6	.8	.0	.0	.0
.9	1.0	.4	.0	.0	.0	.5	2.2	.0	.0
2.9	.0	.0	.0	.0	.0	.0	.8	.0	.0
1.1	.1	.0	.0	.0	.0	.0	.1	.0	.0
19.0	12.6	11.8	11.7	12.9	9.6	7.9	12.3	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	62	58	48	39	30	4	47.7	2046
06009	84	63	58	48	37	33	5	48.5	1639
12015	82	58	55	46	39	31	3	46.7	2167
18021	77	57	55	45	34	30	3	44.9	1493
TOT	84	61	57	46	39	30	3	47.0	7345

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	8.3	18.0	23.5	19.9	30.3	77	142
06009	.0	19.4	17.5	13.7	17.3	32.1	74	124
12015	.0	10.7	15.2	15.5	22.7	36.0	78	82
18021	.0	4.5	17.0	15.2	17.3	37.6	79	100
TOT	0	67	86	89	85	121	77	448

PERIOD: (PRIMARY) 1927-1971
(OVER-ALL) 1870-1971

ANNUAL

AREA 0027 VLADIVOSTOK
41.7N 130.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	.0	.4
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.2	.2	.1	.2	.0	.0	.0	.0	.0	70	.2	1.1
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.7	.1	.2	.1	.1	.1	.1	.1	.1	.0	96	.3	1.4
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.5	.2	.3	.2	.2	.1	.1	.2	.1	.0	142	.3	2.3
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	19	.0	.3
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.7	.5	.3	.4	.2	.3	.2	.4	.2	.1	225	.7	3.5
4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	1.1	.9	1.3	.7	.4	.6	.7	.5	.6	.4	.3	466	1.6	6.9
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1	.0	.1	.1	.1	.0	38	.1	.6
2	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.4	1.5	.6	1.5	1.0	1.0	1.8	1.1	1.2	.8	.2	.1	740	2.8	10.8
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.0	.1	.2	.1	.1	.1	.0	59	.2	.9
0	.0	.0	.0	.0	.0	.0	.5	1.5	2.2	1.4	.6	1.4	1.0	1.2	1.4	3.3	2.0	1.6	.8	.2	.0	1027	3.5	15.5
-1	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.1	.0	.1	.1	.1	.1	.1	.0	.0	.0	52	.1	.8
-2	.0	.0	.0	.0	.0	.0	.9	1.2	1.2	.5	.4	1.1	.6	1.1	1.0	2.4	1.4	.6	.2	.0	.0	670	1.7	10.8
-3	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	38	.1	.6
-4	.0	.0	.0	.0	.0	.0	1.6	.9	.6	.4	.4	.5	.3	.4	.5	1.2	.3	.3	.1	.0	.0	376	.6	6.9
-5	.0	.0	.0	.0	.0	.3	1.3	.7	.5	.5	.4	.3	.4	.4	.3	.5	.1	.0	.0	.0	.0	266	.2	5.4
-6	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	23	.0	.3
-7/-8	.0	.0	.0	.0	.0	.9	.9	.7	.3	.6	.1	.5	.1	.4	.1	.1	.1	.0	.0	.0	.0	210	.2	4.5
-9/-10	.0	.0	.0	.0	.4	.9	1.0	.2	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	170	.1	3.9
-11/-13	.0	.0	.2	1.1	.9	1.1	.4	.5	.4	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	214	.1	5.0
-14/-16	.0	.0	.2	.4	.5	.4	.2	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	.0	2.4
-17/-19	.0	.0	.3	.2	.3	.2	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	.0	1.3
-20/-22	.0	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	.0	.7
-23/-25	.0	.1	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.0	.5
-26/-30	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.2
<-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL																						5140		
PCT	.1	.4	.8	.9	2.4	3.7	8.2	6.7	8.7	7.9	5.5	9.4	5.4	6.5	6.2	11.2	6.3	5.5	3.0	1.0	.4	100.0	12.9	87.1

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	.7	.0	.0	.0	2.9	<1	.7	.9	.1	.0	.0	.0	1.7
1-2	.2	.7	4.6	.0	.0	.0	5.5	1-2	.0	2.2	1.8	.0	.0	.0	4.0
3-4	.0	1.5	1.6	1.2	.0	.0	4.3	3-4	.0	.0	.9	.6	.0	.0	1.5
5-6	.0	.0	1.7	.7	.0	.0	2.4	5-6	.0	.0	.7	.8	.0	.0	1.5
7	.0	.0	.2	1.5	.4	.0	2.1	7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.7	.4	.0	1.1	8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.3	1.0	.5	.0	1.9	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.4	.0	.0	.4	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.2	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.4	9.2	5.7	1.3	.0	20.8	TOT PCT	.7	3.1	4.0	1.4	.0	.0	9.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	1.8	.6	.0	.0	.0	4.3	<1	.1	2.6	.4	.0	.0	.0	3.1
1-2	.0	1.7	1.8	.0	.0	.0	3.5	1-2	.0	2.2	2.7	.0	.0	.0	5.0
3-4	.0	.0	1.3	.0	.0	.0	1.3	3-4	.0	.0	1.4	.0	.0	.0	1.4
5-6	.0	.5	.3	.2	.0	.0	1.0	5-6	.0	.3	.5	.0	.0	.0	.8
7	.0	.0	.2	.0	.0	.0	.2	7	.0	.0	.2	.2	.0	.0	.4
8-9	.0	.0	.6	.5	.0	.0	1.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	4.0	4.9	.9	.0	.0	11.5	TOT PCT	.1	3.1	3.2	.2	.0	.0	10.6

PERIOD: (OVER-ALL) 1963-1971

ANNUAL

AREA 0027 VLADIVOSTOK
41.7N 130.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.5	1.1	.0	.0	.0	.0		1.6	.4	2.2	.4	.0	.0	.0		3.0
1-2	.0	.8	2.3	.0	.0	.0		3.2	.0	1.6	.5	.0	.0	.0		2.2
3-4	.0	.6	2.3	.0	.0	.0		2.9	.0	.0	1.5	.0	.0	.0		1.5
5-6	.0	.2	.9	.0	.0	.0		1.0	.0	.0	.1	.0	.0	.0		.1
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.2	.0	.0	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.5	2.8	5.5	.0	.0	.0		8.8	.4	3.9	2.5	.0	.0	.0		6.8

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.3	2.4	.0	.0	.0	.0		2.7	.7	1.7	.0	.0	.0	.0		2.4	
1-2	.0	.7	1.7	.0	.0	.0		2.4	.1	.9	1.6	.0	.0	.0		2.5	
3-4	.0	.2	3.6	.3	.0	.0		4.1	.0	.1	2.6	1.0	.0	.0		3.7	
5-6	.0	.0	1.5	.0	.0	.0		1.5	.0	.2	1.9	2.0	.0	.0		4.1	
7	.0	.0	.5	.0	.0	.0		.5	.0	.0	.8	2.0	.1	.0		2.9	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.1	.1	.0		.4	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.4	.2	.0	.0		.6	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	1.0	.0	.0		1.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.2	.0	.0		.2	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	3.3	7.3	.3	.0	.0		11.2	.7	2.9	7.6	6.5	.2	.0		17.9	96.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.6	15.0	2.2	.0	.0	.0	24.8	
1-2	.2	10.8	17.2	.0	.0	.0	28.3	
3-4	.0	2.4	15.0	3.0	.0	.0	20.4	
5-6	.0	1.1	7.7	3.8	.0	.0	12.5	
7	.0	.0	2.4	3.7	.5	.0	6.6	
8-9	.0	.0	.9	1.2	.5	.0	2.6	
10-11	.0	.2	.8	1.4	.5	.0	2.9	
12	.0	.0	.0	1.4	.0	.0	1.4	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.8	29.5	46.2	15.0	1.5	.0	100.0	304

PERIOD: (OVER-ALL) 1963-1965

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.5	14.3	10.9	3.9	3.0	.4	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	145	3
6-7	.0	1.0	2.0	2.7	2.8	1.8	.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	6
8-9	.0	.6	.3	1.3	.6	1.0	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	7
10-11	.0	.2	.0	.4	.0	.4	1.3	1.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	9
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	15
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	13.3	14.9	5.9	5.9	2.0	1.1	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	172	2
TOTAL PCT	16.0	31.0	19.4	14.1	8.4	4.8	3.1	2.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	402	4

PERIOD: (PRIMARY) 1927-1971
(OVER-ALL) 1870-1971

AREA 0027 VLADIVOSTOK
41.7N 130.9E

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SFA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	3	.0
79/80	.0	.0	.0	.0	.0	.0	.2	2.1	.2	.0	.0	.0	16	.2
77/78	.0	.0	.0	.0	.0	.0	.5	3.5	.5	.0	.0	.0	30	.4
75/76	.0	.0	.0	.0	.0	.0	2.2	7.0	1.9	.0	.0	.0	73	1.1
73/74	.0	.0	.0	.0	.0	.0	3.4	11.3	3.7	.0	.0	.0	119	1.7
71/72	.0	.0	.0	.0	.0	.0	4.2	15.9	6.5	.0	.0	.0	171	2.5
69/70	.0	.0	.0	.0	.0	.0	10.4	21.3	11.8	.0	.0	.0	277	4.0
67/68	.0	.0	.0	.0	.0	.0	9.8	16.7	14.3	1.2	.0	.0	264	3.8
65/66	.0	.0	.0	.0	.0	1.2	11.6	9.7	20.1	3.2	.0	.0	281	4.1
63/64	.0	.0	.0	.0	.3	5.7	25.8	9.7	33.3	14.8	.0	.0	551	8.0
61/62	.0	.0	.0	.0	.3	8.5	10.1	1.5	5.3	16.2	.9	.0	268	3.9
59/60	.0	.0	.0	.0	.2	7.3	6.9	.0	.9	12.8	1.2	.0	184	2.7
57/58	.0	.0	.0	.0	.3	11.0	7.9	.4	1.1	15.6	2.9	.5	247	3.6
55/56	.0	.0	.0	.0	.6	14.0	2.6	.4	.2	11.5	3.4	.5	203	3.0
53/54	.0	.0	.0	.6	2.1	14.2	1.9	.0	.2	9.8	4.5	.2	205	3.0
51/52	.0	.0	.0	.5	4.3	11.7	1.1	.0	.0	5.3	9.4	.5	197	2.9
49/50	.0	.0	.0	.0	8.6	10.5	.8	.0	.0	1.9	13.9	.5	216	3.1
47/48	.0	.0	.5	1.0	15.1	.8	.2	.0	.0	2.9	10.6	2.3	245	3.6
45/46	.5	.2	1.5	4.5	31.0	7.1	.5	.0	.0	3.7	21.1	12.2	487	7.1
43/44	1.2	.5	1.0	5.3	17.6	.7	.0	.0	.0	.7	9.9	9.0	267	3.9
41/42	.9	.0	1.2	6.7	7.6	.0	.0	.0	.0	.4	4.8	8.1	170	2.5
39/40	3.9	2.4	3.8	18.6	6.9	.0	.0	.0	.0	.0	5.8	13.8	305	4.4
37/38	8.5	4.8	9.5	24.1	3.8	.0	.0	.0	.0	.0	4.1	10.6	359	5.2
35/36	12.2	14.0	20.9	22.2	.6	.0	.0	.0	.0	.0	3.8	13.4	459	6.7
33/34	15.0	19.5	26.2	11.7	.3	.0	.0	.0	.0	.0	2.1	9.4	422	6.3
31/32	19.2	20.2	16.4	3.7	.3	.0	.0	.0	.0	.0	1.0	8.5	317	4.6
29/30	23.7	23.9	14.1	1.1	.0	.0	.0	.0	.0	.0	.5	5.8	322	4.7
27/28	18.9	14.5	5.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	193	2.8
25/26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
23/24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
21/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
19/20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
17/18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
15/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
13/14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
11/12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
5/6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
3/4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	434	415	603	623	654	563	623	681	567	681	583	434	6861	100.0
MEAN	32.4	32.3	34.0	37.8	45.2	54.2	64.0	69.8	66.3	57.5	46.3	38.0	48.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MC	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL DBS
JAN	1019	1019	1020	1018	1019	1019	1022	1020	1019	450
FEB	1022	1019	1020	1018	1021	1019	1023	1019	1019	466
MAR	1019	1015	1014	1015	1014	1014	1017	1014	1015	629
APR	1016	1013	1013	1011	1018	1011	1015	1012	1012	564
MAY	1010	1009	1012	1007	1012	1008	1009	1008	1008	585
JUN	1009	1008	1007	1007	1011	1007	1004	1008	1007	482
JUL	1008	1007	1006	1006	1010	1006	1009	1006	1006	547
AUG	1010	1008	1008	1008	1011	1008	1009	1008	1008	564
SEP	1013	1012	1012	1011	1014	1012	1013	1012	1012	512
OCT	1020	1017	1019	1015	1020	1017	1019	1016	1017	611
NOV	1020	1019	1019	1018	1022	1018	1022	1020	1019	564
DEC	1020	1020	1019	1018	1023	1019	1020	1019	1019	436
ANN	1016	1014	1014	1013	1016	1013	1015	1014	1013	6410
DBS	203	1572	178	1336	169	1632	155	1165		

PERCENTILES

MC	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	998	1000	1006	1014	1020	1025	1030	1034	1037
FEB	999	1003	1009	1013	1018	1024	1030	1033	1034
MAR	994	997	1004	1010	1014	1019	1026	1029	1033
APR	990	993	1000	1007	1012	1018	1024	1028	1029
MAY	988	990	997	1003	1009	1013	1018	1021	1027
JUN	988	989	996	1003	1008	1012	1017	1021	1026
JUL	989	992	997	1002	1007	1010	1016	1019	1023
AUG	991	993	998	1005	1008	1012	1016	1019	1025
SEP	993	995	1001	1008	1012	1016	1022	1025	1029
OCT	996	1000	1005	1012	1016	1021	1028	1032	1035
NOV	998	1002	1007	1014	1020	1024	1029	1032	1038
DEC	1001	1002	1007	1014	1020	1024	1030	1034	1040

PERIOD: (PRIMARY) 1929-1972
(OVER-ALL) 1911-1972

JANUARY

AREA 0028 SEA OF JAPAN N
42.2N 135.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND D.R	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	6.6	.0	.0	.0	21.7	.0	.0	21.7	.0	.0	.0	.0	.0	.0	78.3
NE	7.0	.0	.0	.0	18.3	.0	.0	18.3	12.7	.0	.0	.0	.0	.0	69.0
E	.0	.0	.0	.0	.0	.0	.0	.0	8.6	.0	.0	.0	.0	.0	91.4
SE	15.4	.0	.0	.0	.0	.0	.0	15.4	30.8	.0	.0	.0	.0	.0	53.8
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	9.8	.0	.0	9.8	9.8	.0	.0	.0	.0	.0	80.5
W	.0	2.8	.0	.0	8.3	.0	.0	11.0	.0	.0	.0	.0	.0	.0	89.0
NW	.0	.0	.0	.0	8.0	.0	.0	8.0	1.7	.0	.0	.0	.0	.0	90.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.7	.5	.0	.0	11.4	.0	.0	12.4	3.8	.0	.0	.0	.0	.0	83.8
TOT OBS:	185														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	1.7	.0	.0	.0	13.8	.0	.0	13.8	3.4	.0	.0	.0	.0	.0	82.8
0600	2.4	2.4	.0	.0	7.3	.0	.0	9.8	4.9	.0	.0	.0	.0	.0	85.4
1200	6.0	.0	.0	.0	14.0	.0	.0	18.0	4.0	.0	.0	.0	.0	.0	80.0
1800	.0	.0	.0	.0	11.9	.0	.0	11.9	4.8	.0	.0	.0	.0	.0	83.3
TOT PCT TOT OBS:	2.6 191	.5	.0	.0	12.0	.0	.0	13.1	4.2	.0	.0	.0	.0	.0	82.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	3.7	7.8	6.9	1.7	.0		20.1	19.9		15.3	15.5	12.2	16.7	22.9	29.5	26.9	25.0
NE	.4	1.2	4.0	2.0	.8	.0		8.4	18.9		12.8	7.4	11.0	11.1	6.8	4.5	5.0	6.3
E	.4	1.2	2.1	.4	.0	.0		4.2	13.3		3.6	.0	1.7	11.1	7.8	4.5	2.5	12.5
SE	.0	.5	1.9	.8	.0	.0		2.8	17.0		.0	.0	5.2	11.1	5.7	4.5	.0	.0
S	.0	.5	1.9	.2	.0	.0		2.2	15.2		1.5	1.9	5.2	.0	2.1	.0	2.5	.0
SW	.5	1.9	2.3	1.0	.0	.0		5.8	14.6		6.1	11.1	10.5	2.8	2.6	.0	5.6	.0
W	.5	3.8	10.3	.8	3.3	.0		18.6	18.5		20.9	16.7	25.6	8.3	15.6	20.5	13.1	25.0
NW	1.4	5.1	16.4	9.8	4.4	.0		37.0	19.7		39.8	44.4	23.8	38.9	36.5	36.4	44.4	21.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0		.0	.0	4.7	.0	.0	.0	.0	.0
TOT OBS	10	44	113	54	25	0	246		18.6		49	27	43	9	48	22	40	8
TOT PCT	4.1	17.9	45.9	22.0	10.2	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	.0	8.1	7.0	5.0	.0		20.1	19.9	16.4	13.0	25.0	26.6
NE	.5	3.3	2.9	1.3	.4		8.4	18.9	10.9	11.1	6.1	5.2
E	.7	1.8	1.2	.4	.0		4.2	13.3	2.3	3.4	8.8	4.2
SE	.0	2.0	.0	.8	.0		2.8	17.0	.0	6.3	5.4	.0
S	.0	1.6	.4	.2	.0		2.2	15.2	1.6	4.3	1.4	2.1
SW	1.2	2.2	1.7	.6	.0		5.8	14.6	7.9	9.1	1.8	4.7
W	1.7	7.9	5.7	1.6	1.6		18.6	18.5	19.4	22.6	17.1	13.1
NW	2.3	11.6	14.3	7.9	.8		37.0	19.7	41.4	26.4	36.4	42.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8	.0	.0	3.8	.0	.0
TOT OBS	10	95	82	44	7	246		18.6	76	52	70	48
TOT PCT	7.3	38.6	33.3	17.9	2.8		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1911-1972

JANUARY

AREA 0028 SEA OF JAPAN N
42.2N 135.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.0	2.6	23.7	46.1	18.4	9.2	.0	17.7	100.0	76
06009	3.8	3.8	15.4	40.4	26.9	9.6	.0	18.3	100.0	52
12015	.0	2.9	17.1	41.4	24.3	14.3	.0	20.1	100.0	70
18021	.0	4.2	12.5	58.3	18.8	6.3	.0	18.1	100.0	48
TOT	2	8	44	113	84	25	0	18.6		246
PCT	.8	3.3	17.9	45.9	22.0	10.2	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.8	2.3	4.5	8.7		5.2
NE	1.4	.8	6.6	3.1		5.8
E	.0	.0	2.1	2.5		6.1
SE	.8	.0	1.0	2.5		6.2
S	.0	.0	.4	1.4		7.4
SW	1.9	.0	1.9	.2		3.3
W	14.0	.8	1.9	2.9		2.3
NW	23.1	1.6	2.3	5.0		2.0
VAR	.0	.0	.0	.0		.0
CALM	.8	.0	.0	.0		2.0
TOT OBS	61	7	27	34	129	3.7
TOT PCT	47.3	5.4	20.9	26.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ NH <5/8 ANY HGT	TOTAL OBS
N	1.6	.0	.0	.0	5.2	3.5	.8	.0	1.4	.0	7.9
NE	.0	.0	.0	.0	2.5	3.1	3.1	.0	.2	.0	2.9
E	.0	.0	.0	.0	.6	3.3	.0	.0	.8	.0	.6
SE	.0	.0	.0	.0	.2	2.5	.0	.0	.0	.0	1.6
S	.0	.0	.0	.0	.6	.0	.0	.0	.8	.0	.6
SW	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	3.1
W	.0	.0	.0	.0	1.4	1.4	.8	.0	.0	.8	15.3
NW	.8	.0	.0	.0	1.9	.8	.8	.0	.0	.8	26.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
TOT OBS	3	0	0	0	16	20	7	0	4	2	77
TOT PCT	2.3	.0	.0	.0	12.4	15.5	5.4	.0	3.1	1.6	59.7

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)	
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0		
= OR >6500	3.1	3.9	4.7	4.7	4.7	4.7	4.7	4.7		
= OR >4000	3.1	3.9	4.7	4.7	4.7	4.7	4.7	4.7		
= OR >3500	7.8	8.5	9.3	9.3	9.3	9.3	9.3	9.3		
= OR >2000	14.0	19.4	22.5	22.5	24.8	24.8	24.8	24.8		
= OR >1000	19.4	26.4	32.6	34.1	36.4	37.2	37.2	37.2		
= OR >600	19.4	26.4	32.6	34.1	36.4	37.2	37.2	37.2		
= OR >300	19.4	26.4	32.6	34.1	36.4	37.2	37.2	37.2		
= OR >150	19.4	26.4	32.6	34.1	36.4	37.2	37.2	37.2		
= OR >0	19.4	26.4	32.6	35.7	38.8	40.3	41.1	41.1		
TOTAL	25	34	42	46	50	52	53	53		

TOTAL NUMBER OF OBS: 129

PCT FREQ NH <5/8: 58.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
36.9	9.1	9.5	2.2	2.9	5.1	10.2	1.5	23.4	3.6	137

PERIOD: (PRIMARY) 1929-1972
(OVER-ALL) 1911-1972

JANUARY

AREA 0028 SEA OF JAPAN N
42.2N 135.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.1	.0	.0	.0	.0	.0	.0	1.1	.0	.0	2.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.1	.0	.0	.0	.0	.0	.0	1.1	.0	.0	2.2	
1/2<1	PCP	1.3	.1	.0	.0	.0	.5	.0	.0	.0	.0	2.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.3	.1	.0	.0	.0	.5	.0	.0	.0	.0	2.2	
1<2	PCP	.9	.5	.0	.0	.0	.0	.5	.1	.0	.0	2.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.9	.5	.0	.0	.0	.0	.5	.1	.0	.0	2.2	
2<5	PCP	1.1	.5	.0	.5	.0	.0	1.1	.0	.0	.0	3.2	
	NO PCP	.0	.5	.5	.0	.0	.0	.0	1.1	.0	.0	2.2	
	TOT %	1.1	1.1	.5	.5	.0	.0	1.1	1.1	.0	.0	5.4	
5<10	PCP	.9	.5	.0	.0	.0	.0	.5	1.4	.0	.0	2.7	
	NO PCP	5.0	.9	.8	2.2	.5	2.4	5.1	9.5	.0	.0	26.5	
	TOT %	5.9	1.5	.8	2.2	.5	2.4	5.7	10.8	.0	.0	29.2	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	12.8	6.4	3.4	.8	1.4	2.6	12.3	19.1	.0	.5	58.9	
	TOT %	12.8	6.4	3.4	.8	1.4	2.6	12.3	19.1	.0	.5	58.9	
TOT OBS													185
TOT PCT		22.4	9.6	4.7	3.5	1.9	5.5	19.6	32.2	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.9	.0	.0	.0	.0	.0	.0	.9	.0	.0	1.9	
	TOT %	.9	.0	.0	.0	.0	.0	.0	.9	.0	.0	1.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
	22+	.4	.1	.0	.0	.0	.5	.0	.0	.0	.0	.9	
	TOT %	1.3	.1	.0	.0	.0	.5	.0	.0	.0	.0	1.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.8	.5	.0	.0	.0	.0	.5	.1	.0	.0	1.9	
	TOT %	.8	.5	.0	.0	.0	.0	.5	.1	.0	.0	1.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4	
	11-21	.5	.5	.5	.5	.0	.0	.7	.2	.0	.0	2.8	
	22+	.5	.5	.0	.0	.0	.0	.5	.9	.0	.0	2.3	
	TOT %	.9	.9	.5	.5	.0	.0	1.2	2.6	.0	.0	6.6	
5<10	0-3	.0	.0	.0	.0	.0	.1	.4	.9	.0	.0	1.4	
	4-10	1.3	.8	.7	.5	.0	.9	1.2	1.6	.0	.0	7.0	
	11-21	1.3	.0	.0	.5	.5	.6	3.4	1.8	.0	.0	8.0	
	22+	2.2	.5	.0	.9	.0	.5	.0	5.8	.0	.0	9.9	
	TOT %	4.8	1.3	.7	1.9	.5	2.1	4.9	10.1	.0	.0	26.3	
10+	0-3	.0	.5	.5	.0	.0	.5	.2	.7	.0	.9	3.3	
	4-10	2.5	.8	.7	.1	.8	1.3	3.2	2.3	.0	.0	11.3	
	11-21	3.4	3.6	1.3	.8	1.3	1.9	7.5	11.7	.0	.0	33.3	
	22+	4.5	1.1	.5	.0	.0	.0	1.4	6.2	.0	.0	13.6	
	TOT %	12.3	5.8	2.9	.7	1.9	3.6	12.3	21.0	.0	.9	61.5	
TOT OBS													213
TOT PCT		21.1	8.6	4.1	3.1	2.3	6.2	18.9	34.7	.0	.9	100.0	

JANUARY

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1911-1972AREA 0028 SEA OF JAPAN M
42.2N 135.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	7.1	.0	.0	.0	14.3	11.9	4.8	.0	2.4	.0	40.5	59.5	42
06009	.0	.0	.0	.0	10.3	17.2	10.3	.0	6.9	.0	44.8	55.2	29
12015	3.1	.0	.0	.0	15.6	21.9	3.1	.0	3.1	3.1	50.0	50.0	32
18021	3.6	.0	.0	.0	7.1	10.7	3.6	.0	.0	3.6	28.6	71.4	28
TOT	5	0	0	0	16	20	7	0	4	2	54	77	131
PCT	3.8	.0	.0	.0	12.2	15.3	5.3	.0	3.1	1.5	41.2	58.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.5	2.9	4.4	1.5	22.1	67.6	68
06009	.0	2.1	2.1	10.6	17.0	68.1	47
12015	3.4	1.7	1.7	10.2	35.6	47.5	59
18021	2.2	2.2	.0	6.7	33.3	55.6	45
TOT	4	5	5	15	59	131	219
PCT	1.8	2.3	2.3	6.8	26.9	59.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	7.1	9.5	11.9	28.6	59.5	42
06009	.0	3.6	10.7	32.1	57.1	28
12015	3.2	9.7	25.8	25.8	48.4	31
18021	3.6	3.6	10.7	17.9	71.4	28
TOT	5	9	19	34	76	129
PCT	3.9	7.0	14.7	26.4	58.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.0	.0	3.0	3.0	6.1	6.1	6	18.2
30/34	.0	.0	3.0	3.0	9.1	3.0	.0	.0	6	18.2
25/29	.0	.0	.0	12.1	3.0	15.2	3.0	.0	11	33.3
20/24	.0	.0	.0	.0	6.1	3.0	6.1	.0	5	15.2
15/19	.0	.0	.0	9.1	6.1	.0	.0	.0	5	15.2
TOTAL	0	0	1	8	9	8	5	2	33	100.0
PCT	.0	.0	3.0	24.2	27.3	24.2	15.2	6.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	3.0	.0	15.2	.0	.0	.0	.0	.0	.0
2.3	7.6	5.3	.8	2.3	.0	.0	.0	.0	.0
2.3	6.1	.0	.0	.0	3.8	10.6	10.6	.0	.0
3.0	3.0	.0	.0	.0	.0	.0	9.1	.0	.0
2.3	.0	.0	.0	.0	.0	.0	12.9	.0	.0
9.8	19.7	5.3	15.9	2.3	3.8	10.6	32.6	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	43	42	35	27	11	9	9	23.3	76
06009	47	46	39	29	18	14	14	28.5	52
12015	45	44	38	25	12	12	12	25.1	70
18021	45	44	36	23	14	12	12	24.2	48
TOT	47	45	37	27	13	10	9	25.7	246

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	33.3	22.2	11.1	33.3	.0	.0	.0	70	9
06009	.0	33.3	22.2	33.3	.0	11.1	.0	.0	67	9
12015	.0	11.1	22.2	33.3	22.2	11.1	.0	.0	73	9
18021	.0	33.3	50.0	16.7	.0	.0	.0	.0	63	6
TOT	0	9	9	8	5	2	68	33		

JANUARY

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1911-1972AREA 0028 SEA OF JAPAN N
42.2N 135.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	N FOG	NO FOG
5	.0	.0	.0	.0	.0	.0	.0	.6	.0	1	.0	.6
4	.0	.0	.0	.0	.0	.0	.0	.0	1.3	2	.0	1.3
3	.0	.0	.0	.0	.0	.0	.6	.0	.0	1	.0	.6
2	.0	.0	.0	.0	.0	.0	.0	.0	.6	1	.0	.6
1	.0	.0	.0	.0	.0	.0	.6	.6	.0	2	.0	1.3
0	.0	.0	.0	.0	.0	.0	2.6	.6	.0	5	.0	3.2
-1	.0	.0	.0	.0	.0	.0	1.9	.6	.0	4	.0	2.6
-2	.0	.0	.0	.0	.0	.0	3.2	1.3	.0	7	.0	4.5
-3	.0	.0	.0	.0	.0	.6	1.3	.0	.0	3	.0	1.9
-4	.0	.0	.0	.0	1.3	1.9	1.3	1.3	.0	9	.0	5.8
-5	.0	.0	.0	.0	1.9	1.3	.6	.0	.0	6	.0	3.9
-6	.0	.0	.0	.0	.6	1.9	1.3	.0	.0	6	.0	3.9
-7/-8	.0	.0	.0	.0	5.8	5.8	1.9	.0	.0	21	.0	13.5
-9/-10	.0	.0	1.9	5.8	5.2	3.2	1.9	.0	.0	28	.0	18.1
-11/-13	.0	.0	.6	5.2	5.6	.0	.6	.0	.0	19	.0	12.3
-14/-16	.0	1.3	5.8	3.2	1.3	1.3	.6	.0	.0	21	.0	13.5
-17/-19	.6	1.9	1.3	.0	.0	.0	.0	.0	.0	6	.0	3.9
-20/-22	1.9	3.9	.6	.0	.0	.0	.0	.0	.0	10	.0	6.5
-23/-25	.6	.6	.0	.0	.0	.0	.0	.0	.0	2	.0	1.3
-26/-30	.6	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.6
TOTAL	6	12	16	22	34	25	29	8	3	155	.0	155
PCT	3.9	7.7	10.3	14.2	21.9	16.1	18.7	5.2	1.9	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.9	.0	.2	.0	.0	.0	1.1
1-2	.0	.7	.0	.0	.0	.0	.7	.0	1.3	.9	.0	.0	.0	2.4
3-4	.0	1.8	3.1	.9	.0	.0	5.7	.0	.0	3.7	.0	.0	.0	3.7
5-6	.0	.0	.9	1.5	.0	.0	2.4	.0	.0	.9	.9	.0	.0	1.8
7	.0	.0	.0	5.7	.0	.0	5.7	.0	.0	.9	.2	.0	.0	1.1
8-9	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	1.8	.0	.0	1.8
10-11	.0	.0	.7	.0	.0	.0	.7	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.9	.7	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	1.8	.7	.9	.0	3.3	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	6.4	10.5	2.4	.0	22.4	.9	1.5	6.8	3.1	.0	.0	12.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.7	.0	.0	.0	1.3	.0	.2	.0	.0	.0	.0	.2
1-2	.0	1.3	.9	.0	.0	.0	2.2	.0	.9	1.8	.0	.0	.0	2.6
3-4	.0	.0	.9	.0	.0	.0	.9	.0	.0	.2	1.8	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	2.4	.9	.0	.0	5.3	.0	1.1	2.9	1.8	.0	.0	5.7

PERIOD: (OVER-ALL) 1963-1972

JANUARY

AREA 0028 SEA OF JAPAN N
42.2N 133.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	2.0	.0	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.9	.0	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.9	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	1.5	.0	.0	.0	1.5	.0	.2	3.5	1.8	.0	.0	5.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	1.1	.0	.0	.0	.0	1.1	
1-2	.0	.9	.9	.0	.0	.0	1.8	.0	.0	2.6	.0	.0	.0	2.6	
3-4	.0	.0	2.4	.9	.0	.0	3.3	.0	.0	3.7	2.6	.0	.0	6.4	
5-6	.0	.7	.9	.0	.9	.0	2.4	.0	.0	4.4	4.6	.9	.0	9.9	
7	.0	.0	2.4	.9	.0	.0	3.3	.0	.0	.9	2.9	.9	.0	4.6	
8-9	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.9	.0	.0	.9	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	
13-16	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	2.6	.9	.0	3.5	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.9	.0	1.8	
20-22	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.4	9.6	1.8	1.8	.0	15.6	.0	1.1	12.5	13.6	3.7	.0	30.9	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.8	3.5	.9	.0	.0	.0	6.1	
1-2	.0	5.3	7.0	.0	.0	.0	12.3	
3-4	.0	1.8	17.5	6.1	.0	.0	25.4	
5-6	.0	.9	8.8	7.9	1.8	.0	19.3	
7	.0	.0	4.4	10.5	.9	.0	15.8	
8-9	.0	.0	.9	3.5	.0	.0	4.4	
10-11	.0	.0	2.6	.9	.0	.0	3.5	
12	.0	.0	.0	.9	.0	.0	1.8	
13-16	.0	.0	1.8	3.5	2.6	.0	7.9	
17-19	.0	.0	.9	.9	.0	.0	1.8	
20-22	.0	.0	.9	.0	.9	.0	1.8	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.8	11.4	45.6	33.3	7.9	.0	100.0	114

PERIOD: (OVER-ALL) 1964-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.5	3.3	13.3	10.8	.0	.8	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	4
6-7	.0	.0	5.0	3.3	5.8	.8	.8	.8	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	7
8-9	.0	.0	.0	.8	5.8	.8	.0	.0	3.3	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	10
10-11	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	2	14
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	1	20
INDET	1.7	5.8	6.7	9.2	5.0	1.7	1.7	.8	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	5
TOTAL	5	11	30	29	21	5	4	2	9	2	2	0	0	0	0	0	0	0	0	120	6
PCT	4.2	9.2	25.0	24.2	17.5	4.2	3.3	1.7	7.5	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1911-1971AREA 0028 SEA OF JAPAN N
42.0N 135.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	7.2	.0	.0	7.2	4.2	.0	.0	.0	.0	.0	88.6
NE	.0	.0	.0	.0	27.1	.0	.0	27.1	8.3	.0	.0	.0	.0	.0	64.6
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	.0	.0	.0	93.0
W	.0	.0	.0	.0	1.7	.0	.0	1.7	.0	.0	.0	.0	.0	.0	98.3
NW	.0	.0	.0	.0	7.8	.0	.0	7.8	1.4	.0	1.1	.0	.0	.0	89.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.0	.0	.0	.0	6.4	.0	.0	6.4	1.8	.0	.9	.0	.0	.0	90.8
TOT OBS:	218														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	.0	.0	.0	.0	8.9	.0	.0	8.9	1.8	.0	3.6	.0	.0	.0	85.7
06009	.0	.0	.0	.0	9.6	.0	.0	9.6	3.8	.0	.0	.0	.0	.0	86.5
12015	.0	.0	.0	.0	5.3	.0	.0	5.3	1.8	.0	.0	.0	.0	.0	93.0
18021	.0	.0	.0	.0	3.6	.0	.0	3.6	.0	.0	.0	.0	.0	.0	96.4
TOT PCT	.0	.0	.0	.0	6.8	.0	.0	6.8	1.8	.0	.9	.0	.0	.0	90.5
TOT OBS:	221														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	4.2	9.8	2.3	.5	.0		17.5	15.0		14.0	8.3	17.3	23.8	22.3	22.6	17.7	15.2
NE	.5	2.7	1.6	.8	.0	.0		5.7	10.8		9.5	1.7	3.6	14.3	3.3	3.2	8.9	.0
E	.5	1.5	.9	.0	.0	.0		2.4	6.4		.0	5.0	1.8	8.3	2.2	3.2	2.1	.0
SE	.2	1.2	.0	.0	.0	.0		1.4	6.4		.0	5.0	.6	1.2	4.3	.0	.0	.0
S	.3	1.5	.6	.0	.0	.0		2.4	8.1		2.0	.0	2.4	6.0	.0	6.5	.0	7.6
SW	.3	2.6	2.0	.3	.0	.0		5.2	9.7		4.0	5.0	7.7	3.6	3.3	9.7	3.1	7.6
W	.0	6.8	9.7	2.8	.3	.0		19.6	14.9		27.0	20.8	29.2	9.5	20.7	8.1	18.2	9.8
NW	.9	8.3	21.3	10.2	3.0	.0		43.7	18.2		39.5	34.2	35.1	33.3	41.8	43.5	47.9	59.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0		4.0	.0	2.4	.0	2.2	3.2	2.1	.0
TOT OBS	16	84	132	48	11	0	291		15.1		50	30	42	21	46	31	48	23
TOT PCT	5.5	28.9	45.4	16.5	3.8	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	2.6	7.6	6.4	.9	.0			17.5	15.0		11.9	19.4	22.4	16.9	
NE	1.9	2.8	.9	.0	.0			5.7	10.8		6.6	7.1	3.2	6.0	
E	1.2	1.2	.0	.0	.0			2.4	6.4		1.9	4.0	2.6	1.4	
SE	.5	.9	.0	.0	.0			1.4	6.4		1.9	.8	2.6	.0	
S	1.1	1.3	.0	.0	.0			2.4	8.1		1.3	3.6	2.6	2.5	
SW	2.2	2.5	.5	.0	.0			5.2	9.7		4.4	6.3	3.8	4.6	
W	2.5	8.2	7.9	.9	.0			19.6	14.9		24.7	22.6	13.6	13.5	
NW	2.7	17.0	18.0	5.3	.7			43.7	18.2		45.0	34.5	42.5	51.8	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	2.1							2.1	.0		2.5	1.6	2.6	1.4	
TOT OBS	49	121	98	21	2	291			15.1		80	63	77	71	
TOT PCT	16.8	41.6	33.7	7.2	.7			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1911-1971

FEBRUARY

AREA 0028 SEA OF JAPAN N
42.0N 135.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	2.5	1.3	27.5	50.0	16.3	2.5	.0	14.9	100.0	80
0600Z	1.8	4.8	27.0	41.3	20.6	4.8	.0	13.6	100.0	63
1200Z	2.6	5.2	32.5	44.2	13.0	2.6	.0	13.8	100.0	77
1800Z	1.4	2.8	28.2	43.1	16.9	5.6	.0	16.2	100.0	71
TOT	6	10	84	132	48	11	0	13.1		291
PCT	2.1	3.4	28.9	43.4	16.3	3.8	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.9	4.2	6.3	1.1		3.8
NE	1.4	.9	2.0	1.3		4.9
E	1.1	.0	.5	.0		3.2
SE	.8	1.3	.2	.0		3.1
S	.5	1.1	.0	.6		4.0
SW	2.3	1.6	.8	2.5		4.4
W	10.2	3.6	6.3	.9		3.1
NW	20.9	3.5	9.1	6.7		3.4
VAR	.0	.0	.0	.0		.0
CALM	.6	.0	.0	.0		.0
TOT OBS	70	29	40	21	160	3.5
TOT PCT	43.8	18.1	25.0	13.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	2500 4999	3000 6499	3500 7999	4000 8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	1.1	2.8	1.6	1.9	.0	.0	.0	10.2	
.0	.0	.6	.0	1.4	.6	.0	.6	.0	.0	2.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
.6	.0	.0	.0	.6	.6	.0	.0	.0	.0	5.3	
.0	.0	.0	.0	.6	3.9	1.1	.0	.6	.0	14.7	
.6	.0	.0	2.0	2.7	7.0	2.7	.0	.0	.6	26.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
2	0	1	5	13	22	9	1	1	1	109	160
1.3	.0	.6	3.1	8.1	13.8	5.6	.6	.6	.6	65.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >8000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>OR >6000	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9
>OR >4000	5.0	8.1	8.1	8.1	8.1	8.1	8.1	8.1
>OR >2000	12.5	20.6	21.3	22.5	22.5	22.5	22.5	22.5
>OR >1000	15.0	27.5	28.8	30.0	30.6	30.6	30.6	30.6
>OR >800	16.9	29.4	31.9	33.1	33.8	33.8	33.8	33.8
>OR >600	16.9	29.4	31.9	33.1	34.4	34.4	34.4	34.4
>OR >400	16.9	29.4	31.9	33.1	34.4	34.4	34.4	34.4
>OR >200	16.9	29.4	31.9	33.1	34.4	34.4	34.4	34.4
>OR >0	16.9	29.4	31.9	33.1	34.4	34.4	34.4	34.4
TOTAL	27	47	51	53	53	56	57	57

TOTAL NUMBER OF OBS: 160

PCT FREQ NH <5/8: 64.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
31.5	6.5	11.3	9.5	4.8	1.8	9.5	11.3	12.5	1.2	160

PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1911-1971

FEBRUARY

AREA 0028 SEA OF JAPAN N
42.0N 135.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.6	.0	.0	.0	.0	.0	.0	.3	.0	.0	.9	
	NO PCP	.0	.0	.0	.0	.0	.9	.0	.5	.0	.0	.9	
	TOT %	.6	.0	.0	.0	.0	.9	.0	.8	.0	.0	1.8	
1/2<1	PCP	.0	1.4	.0	.0	.0	.0	.0	1.4	.0	.0	2.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	1.4	.0	.0	.0	.0	.0	1.4	.0	.0	2.8	
1<2	PCP	.8	.1	.0	.0	.0	.0	.0	.5	.0	.0	1.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.8	.1	.0	.0	.0	.0	.0	.5	.0	.0	1.4	
2<5	PCP	.0	.0	.0	.0	.0	.0	.3	.6	.0	.0	.9	
	NO PCP	.8	.0	.0	.0	.0	.0	.5	1.5	.0	.0	2.8	
	TOT %	.8	.0	.0	.0	.0	.0	.8	2.1	.0	.0	3.7	
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
	NO PCP	5.7	1.4	.2	.5	1.3	2.8	5.5	7.5	.0	.5	29.2	
	TOT %	5.7	1.4	.2	.5	1.3	2.8	5.5	7.9	.0	.5	29.7	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	11.2	2.6	2.1	1.4	1.9	3.3	13.4	28.7	.0	.0	64.7	
	TOT %	11.2	2.6	2.1	1.4	1.9	3.3	13.4	28.7	.0	.0	64.7	
TOT OBS													218
TOT PCT		19.2	5.5	2.3	1.8	3.2	6.5	19.7	41.3	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.3	.0	.0	.0	.0	.4	.0	.1	.0	.0	.9	
	22+	.2	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.3	
	TOT %	.5	.0	.0	.0	.0	.4	.0	1.2	.0	.0	2.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.4	.0	.0	.0	.0	.0	1.3	.0	.0	1.7	
	TOT %	.0	1.3	.0	.0	.0	.0	.0	1.3	.0	.0	2.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.2	.0	.0	.0	.0	.0	.0	.6	.0	.0	.9	
	TOT %	1.0	.1	.0	.0	.0	.0	.0	.6	.0	.0	1.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.7	.0	.0	.0	.0	.0	1.3	1.0	.0	.0	3.0	
	22+	.4	.0	.0	.0	.0	.0	.5	2.0	.0	.0	3.0	
	TOT %	1.2	.4	.0	.0	.0	.0	1.8	3.0	.0	.0	6.4	
5<10	0-3	.2	.0	.0	.0	.0	.0	.0	.2	.0	.4	.9	
	4-10	.7	.6	.2	.4	.7	1.4	1.4	1.1	.0	.0	5.1	
	11-21	2.8	.5	.0	.0	.7	1.9	3.0	5.1	.0	.0	14.0	
	22+	1.6	.1	.0	.0	.0	.4	.7	1.0	.0	.0	3.8	
	TOT %	5.3	1.3	.2	.4	1.2	2.6	5.1	7.3	.0	.4	23.8	
10+	0-3	.4	.4	.6	.2	.4	.0	.0	.4	.0	.0	2.6	
	4-10	1.9	1.1	.9	1.1	1.4	3.0	4.0	2.9	.0	.0	16.2	
	11-21	7.7	.5	.4	.0	.0	.1	6.1	15.4	.0	.0	30.2	
	22+	1.1	.4	.0	.0	.0	.0	2.6	10.4	.0	.0	14.5	
	TOT %	11.1	2.4	1.9	1.3	1.8	3.1	12.7	29.1	.0	.0	63.4	
TOT OBS													235
TOT PCT		19.0	5.5	2.1	1.7	3.0	6.1	19.6	42.6	.0	.4	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1911-1971AREA 0028 SEA OF JAPAN N
42.0N 135.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	4.4	.0	2.2	4.4	20.0	11.1	11.1	.0	.0	2.2	55.6	44.4	45
06009	.0	.0	.0	7.5	5.0	17.5	10.0	2.5	.0	.0	42.5	57.5	40
12015	.0	.0	.0	.0	.0	10.8	2.7	.0	.0	.0	13.5	86.5	37
18021	.0	.0	.0	.0	4.8	16.7	.0	.0	2.4	.0	23.8	76.2	42
TOT	2	0	1	5	13	23	10	1	1	1	57	107	164
PCT	1.2	.0	.6	3.0	7.9	14.0	6.1	.6	.6	.6	34.8	65.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.3	4.9	.0	9.8	27.9	54.1	61
06009	3.6	3.6	1.8	3.6	20.0	67.3	55
12015	1.6	.0	4.8	9.5	25.4	59.7	63
18021	.0	1.7	1.7	1.7	20.3	74.6	59
TOT	5	6	5	15	56	151	238
PCT	2.1	2.5	2.1	6.3	23.5	63.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	4.4	8.9	17.8	37.8	44.4	45
06009	.0	.0	7.7	35.9	56.4	39
12015	.0	.0	11.1	11.1	77.8	36
18021	.0	.0	2.5	22.5	75.0	40
TOT	2	4	16	44	100	160
PCT	1.3	2.5	10.0	27.5	62.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	.0	.0	3.7	.0	2	3.7
35/39	.0	.0	.0	.0	.0	1.9	13.0	11.1	14	25.9
30/34	.0	.0	.0	.0	.0	.0	1.9	11.1	7	13.0
25/29	.0	.0	.0	1.9	3.7	7.4	.0	.0	7	13.0
20/24	.0	.0	.0	.0	7.4	1.9	1.9	.0	6	11.1
15/19	.0	.0	.0	13.0	5.6	11.1	1.9	1.9	18	32.3
TOTAL	0	0	0	8	9	12	12	13	54	100.0
PCT	.0	.0	.0	14.8	16.7	22.2	22.2	24.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.9	.0	.0	.0	1.4	.5	.0	.0
1.9	5.6	1.4	4.2	3.2	6.3	3.2	.0	.0	.0
1.9	.0	1.4	.5	3.2	4.6	1.4	.0	.0	.0
7.9	.5	.0	.0	.0	.0	2.8	1.9	.0	.0
1.4	.0	.0	.0	.0	.0	.0	9.7	.0	.0
1.4	.0	.0	.0	.0	.0	.0	31.9	.0	.0
14.4	6.0	4.6	4.6	6.5	11.1	8.8	44.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	41	40	37	27	17	12	12	27.3	79
06009	41	40	36	28	19	18	18	28.0	62
12015	43	42	41	27	18	12	12	27.1	74
18021	40	39	35	26	18	10	10	25.0	70
TOT	43	41	37	27	18	12	10	26.8	285

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	13.3	20.0	20.0	13.3	33.3	79	15		
06009	.0	.0	36.4	27.3	18.2	18.2	76	11		
12015	.0	20.0	10.0	20.0	20.0	30.0	76	10		
18021	.0	22.2	9.6	22.2	33.3	16.7	76	18		
TOT	0	8	9	12	12	13	77	54		

FEBRUARY

PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1911-1971

TABLE 17

AREA 0028 SEA OF JAPAN N
42.0N 135.5EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.0	.0	.0	.0	1.0	2	.0	1.0
6	.0	.0	.0	.0	.0	.5	.5	.0	1	.0	.5
5	.0	.0	.0	.0	.0	.5	.5	.0	2	.0	1.0
4	.0	.0	.0	.0	.0	.0	1.0	.0	2	.0	1.0
3	.0	.0	.0	.0	1.5	2.0	.5	.0	8	.0	4.0
2	.0	.0	.0	.0	.0	4.0	.5	.0	9	.0	4.5
1	.0	.0	.0	.5	2.0	4.0	.5	.0	14	.0	6.9
0	.0	.0	.0	.0	.0	.0	.0	.0	2	.5	.5
-1	.0	.0	.0	.0	.0	1.0	.0	.0	15	.0	7.4
-2	.0	.0	.0	1.5	3.5	2.5	.0	.0	1	.0	.5
-3	.0	.0	.0	.0	.5	.0	.0	.0	10	.0	5.0
-4	.0	.0	.0	3.0	1.0	.9	.5	.0	16	.0	7.9
-5	.0	.0	.0	4.5	2.5	1.0	.0	.0	5	.0	2.5
-6	.0	.0	.0	1.5	.5	.5	.0	.0	23	.5	10.9
-7/-8	.0	.0	1.0	9.9	.5	.0	.0	.0	23	.0	11.4
-9/-10	.0	.5	1.0	8.9	1.0	.0	.0	.0	33	.0	16.3
-11/-13	.0	4.5	6.9	4.0	.0	1.0	.0	.0	23	.0	11.4
-14/-16	1.0	8.9	.5	1.0	.0	.0	.0	.0	10	.0	5.0
-17/-19	2.5	1.5	.5	.5	.0	.0	.0	.0	2	.0	1.0
-20/-22	.0	.0	.0	1.0	.0	.0	.0	.0	1	.0	.5
-23/-25	.5	.0	.0	.0	.0	.0	.0	.0	2	.0	1.0
TOTAL	8	31	73	34	2	202	100.0	1.0	99.0		
PCT	4.0	15.3	9.9	36.1	12.9	16.8	4.0	1.0			

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	.8	.0	.0	.0	2.3	.0	1.7	1.7	.0	.0	.0	3.3
3-4	.0	.0	.6	.6	.0	.0	1.3	.0	.0	1.0	.2	.0	.0	1.3
5-6	.0	.6	2.9	.0	.0	.0	3.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.7	.6	.0	.0	3.3	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.6	2.3	.0	.0	.0	2.9	.0	.0	.0	.8	.0	.0	.8
10-11	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.8	.8	.0	1.7	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	11.0	2.1	.8	.0	16.7	.0	1.7	2.9	1.0	.0	.0	5.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	2.1	.0	.0	.0	.0	2.1
1-2	.0	.8	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	.8	.0	.0	.0	2.9	.0	2.1	.0	.0	.0	.0	2.1

PERIOD: (OVER-ALL) 1963-1971

FEBRUARY

AREA 0028 SEA OF JAPAN N
42.0N 133.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	.8	.0	.0	.0	.0	.8	.0	1.7	2.5	.0	.0	.0	4.2	
3-4	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	1.5	.0	.0	.0	1.5	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.3	1.3	.0	.0	.0	3.8	.0	1.9	4.0	.8	.0	.0	6.7	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.3	4.6	.0	.0	.0	4.0	.0	.4	4.6	.0	.0	.0	5.0		
3-4	.0	.8	2.1	.6	.0	.0	3.5	.0	.0	3.0	2.7	.0	.0	7.7		
5-6	.0	.8	2.1	.6	.0	.0	3.8	.0	.2	4.2	4.2	.0	.0	8.5		
7	.0	.0	2.3	3.3	.0	.0	5.6	.0	.8	4.8	1.9	.0	.0	7.5		
8-9	.0	.0	.0	1.7	.0	.0	1.7	.0	.2	1.0	1.7	.0	.0	2.9		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.0	2.5		
12	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	1.7	1.0	.0	2.7		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	2.3		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	3.1	11.0	6.5	.6	.0	21.3	.0	1.7	20.4	13.8	4.4	.0	40.2	99.2	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.8	5.0	.0	.0	.0	.0	5.8	
1-2	.0	8.3	14.2	.0	.0	.0	22.5	
3-4	.0	.8	12.5	4.2	.0	.0	17.5	
5-6	.0	1.7	9.2	5.0	.0	.0	15.8	
7	.0	.8	10.0	6.7	.0	.0	17.5	
8-9	.0	.8	3.3	4.2	.0	.0	8.3	
10-11	.0	.0	2.5	.8	.0	.0	4.2	
12	.0	.0	.0	2.5	2.5	.0	5.0	
13-16	.0	.0	.0	.8	.0	.0	.8	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	2.5	.0	2.5	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	17.5	51.7	24.2	5.8	.0	100.0	120

PERIOD: (OVER-ALL) 1964-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	9.3	10.0	3.3	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	3
6-7	.0	1.3	2.7	4.7	6.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	6
8-9	.0	1.3	.0	.0	6.7	4.0	1.3	2.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	8
10-11	.0	.0	.0	.0	.7	1.3	.7	.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	11
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.3	6.7	6.7	3.3	4.7	.7	1.3	1.3	1.3	2.7	4.7	.0	.0	.0	.0	.0	.0	.0	.0	55	7
TOT PCT	3.3	18.7	19.3	11.3	18.7	7.3	3.3	6.0	3.3	4.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	150	6

PERIOD: (PRIMARY) 1934-1966
(OVER-ALL) 1910-1966

MARCH

AREA 0028 SEA OF JAPAN N
42.1N 135.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	2.2	.0	.0	2.2	.0	.0	3.2	.0	.0	.0	94.6
NE	.0	.0	2.2	.0	9.9	.0	.0	12.2	.0	.0	4.4	.0	.0	.0	83.4
E	.0	.0	.0	.0	6.7	.0	.0	6.7	4.5	.0	4.5	.0	.0	.0	84.3
SE	.0	.0	.0	.0	3.3	.0	.0	3.3	.0	.0	3.3	.0	.0	.0	93.3
S	.0	.0	.0	.0	3.1	.0	.0	3.1	.0	.0	5.1	.0	.0	.0	91.8
SW	.0	.0	4.3	.0	4.3	.0	.0	8.7	.0	.0	6.5	.0	.0	.0	84.8
W	.0	.0	1.9	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	98.1
NW	.0	.0	.0	.0	3.6	.0	.0	3.6	2.4	.0	5.5	.0	.0	.0	88.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.0	.0	1.0	.0	3.9	.0	.0	4.9	1.0	.0	3.9	.0	.0	.0	90.3
TOT OBS:	308														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	.0	.0	.0	.0	6.1	.0	.0	6.1	.0	.0	4.9	.0	.0	.0	89.0
0600	.0	.0	1.2	.0	6.0	.0	.0	7.2	.0	.0	4.8	.0	.0	.0	88.0
1200	.0	.0	1.3	.0	2.6	.0	.0	3.9	1.3	.0	3.9	.0	.0	.0	90.8
1800	.0	.0	1.3	.0	1.3	.0	.0	2.5	2.5	.0	3.8	.0	.0	.0	91.3
TOT PCT	.0	.0	.9	.0	4.0	.0	.0	5.0	.9	.0	4.4	.0	.0	.0	89.7
TOT OBS:	321														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	3.9	6.9	3.2	.9	.0		15.0	16.4		16.2	20.7	12.5	10.0	16.9	22.2	9.9	19.0
NE	.4	3.3	9.9	2.2	.9	.0		11.9	17.9		12.7	3.4	15.8	12.0	13.6	9.3	9.9	13.1
E	.1	1.8	2.9	1.8	.3	.0		6.8	17.0		6.5	3.4	9.9	8.0	8.8	1.9	3.9	3.6
SE	.0	.4	1.7	.2	.0	.0		2.3	14.6		3.6	.0	2.2	2.0	1.3	.0	3.0	4.8
S	.0	2.6	3.6	.6	.0	.0		6.8	13.0		4.5	3.4	4.8	16.0	11.0	3.7	6.9	2.4
SW	.8	2.3	3.9	.6	.0	.0		7.6	12.0		7.1	5.2	9.9	15.0	4.5	11.1	3.6	16.7
W	.5	5.5	10.1	2.6	.2	.0		18.9	14.7		17.5	16.4	24.6	13.0	22.1	11.1	21.4	6.0
NW	.3	5.8	13.4	8.6	1.8	.0		29.8	18.4		30.5	44.0	20.2	24.0	20.5	40.7	38.2	34.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0							1.0	.0		1.3	3.4	.0	.0	1.3	.0	1.3	.0
TOT OBS	14	102	189	79	16	0	400		16.1		77	29	68	25	77	27	76	21
TOT PCT	3.5	25.5	47.3	19.8	4.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	2.5	5.8	4.9	1.8	.0		15.0	16.4	17.5	11.8	18.3	11.9
NE	1.7	3.3	3.0	1.8	.3		11.9	17.9	10.1	14.8	12.3	10.6
E	.8	3.1	1.9	1.1	.0		6.8	17.0	5.7	9.4	7.0	3.4
SE	.1	1.6	.5	.1	.0		2.3	14.6	2.6	2.2	1.0	3.4
S	1.4	3.7	1.3	.4	.0		6.8	13.0	4.2	7.8	9.1	3.9
SW	1.8	4.4	1.4	.0	.0		7.6	12.0	6.6	11.3	6.3	6.4
W	2.7	8.3	7.4	.6	.0		18.9	14.7	17.2	21.5	19.2	18.0
NW	2.2	11.2	12.4	4.0	.0		29.8	18.4	34.2	21.2	25.7	37.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.0						1.0	.0	1.9	.0	1.0	1.0
TOT OBS	36	165	139	39	1	400		16.1	106	93	104	97
TOT PCT	14.0	41.3	34.8	9.8	.3		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1934-1966
(OVER-ALL) 1910-1966

MARCH

AREA 0028 SEA OF JAPAN N
42.1N 135.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.9	.9	30.2	40.6	21.7	4.7	.0	16.5	100.0	106
0600	.0	2.2	25.8	46.2	22.6	3.2	.0	16.7	100.0	93
1215	1.0	2.9	23.1	50.0	17.3	5.8	.0	16.2	100.0	104
1821	1.0	4.1	22.7	52.6	17.5	2.1	.0	15.0	100.0	97
TOT	4	10	102	189	79	16	0	16.1		400
PCT	1.0	2.5	25.5	47.3	19.8	4.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 &	TOTAL	MEAN
				OBSCD	OBS	CLOUD COVER
N	7.4	1.5	3.1	3.1		3.8
NE	4.1	2.1	4.4	4.2		4.7
E	1.8	.8	2.2	2.2		5.1
SE	.1	.0	1.1	1.4		7.1
S	2.1	.4	2.0	2.3		4.7
SW	4.5	.4	1.1	1.5		3.0
W	13.4	2.3	2.9	1.2		1.9
NW	14.5	2.9	5.2	2.5		2.6
VAR	.0	.0	.0	.0		.0
CALM	.8	.0	.0	.0		.0
TOT OBS	121	26	59	46	248	3.4
TOT PCT	48.8	10.5	22.2	18.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT>NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	.3	2.9	2.2	.0	.3	.0	9.4	
NE	.4	.0	.0	.0	1.4	2.2	2.5	.0	.9	.0	7.5	
E	.4	.0	.0	.0	1.4	1.1	.8	.0	.0	.0	3.3	
SE	.0	.0	.0	.0	.2	.5	.4	.1	.4	.5	.5	
S	.0	.0	.0	.0	1.7	.9	.0	.7	.0	.3	3.2	
SW	.0	.0	.0	.0	.6	1.5	.0	.0	.4	.5	5.0	
W	.0	.0	.0	.0	.7	1.1	1.5	.0	.0	.0	16.5	
NW	.4	.0	.0	.8	.9	1.8	.6	.0	.0	.8	19.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	3	0	0	2	18	30	20	2	4	5	164	248
TOT PCT	1.2	.0	.0	.8	7.3	12.1	8.1	.8	1.6	2.0	68.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.8	3.6	4.0	4.0	4.0	4.0	4.0	4.0
>4000	2.8	4.5	4.9	4.9	4.9	4.9	4.9	4.9
>3500	7.3	12.6	13.0	13.0	13.0	13.0	13.0	13.0
>2000	10.1	22.3	25.1	25.5	25.5	25.5	25.5	25.5
>1000	11.3	27.1	30.4	31.2	31.6	31.6	32.0	32.8
>600	11.7	27.9	31.2	32.0	32.4	32.4	32.8	33.6
>300	11.7	27.9	31.2	32.0	32.4	32.4	32.8	33.6
>150	11.7	27.9	31.2	32.0	32.4	32.4	32.8	33.6
>0	11.7	27.9	31.2	32.0	32.4	32.4	32.8	34.8
TOTAL	29	69	77	79	80	81	84	86

TOTAL NUMBER OF OBS: 247

PCT FREQ NH <5/8: 65.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
											OBS
	37.4	3.2	11.5	7.9	2.9	4.3	6.5	6.8	10.3	1.1	278

PERIOD: (PRIMARY) 1934-1966
(OVER-ALL) 1910-1966

MARCH

AREA 0028 SEA OF JAPAN N
42.1N 135.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	1.1	.5	.0	.0	.0	.0	.3	.0	.0	2.3	
	NO PCP	.0	.7	.3	.0	.2	.5	.0	.3	.0	.0	2.0	
	TOT %	.3	1.8	.8	.0	.2	.5	.0	.7	.0	.0	4.3	
1/2<1	PCP	.2	.0	.0	.1	.2	.0	.0	.1	.0	.0	.7	
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3	
	TOT %	.4	.0	.0	.1	.2	.0	.0	.2	.0	.0	1.0	
1<2	PCP	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	TOT %	.0	.0	.3	.0	.0	.3	.0	.3	.0	.0	1.0	
2<5	PCP	.0	.3	.0	.0	.0	.0	.3	.7	.0	.0	1.3	
	NO PCP	.7	.0	.0	.4	1.2	.0	.0	1.3	.0	.0	3.6	
	TOT %	.7	.3	.0	.4	1.2	.0	.3	2.0	.0	.0	4.9	
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	5.4	4.0	2.3	.7	4.2	1.2	5.3	6.7	.0	.0	29.8	
	TOT %	5.4	4.0	2.3	.7	4.2	1.2	5.3	6.7	.0	.0	29.8	
10+	PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	NO PCP	8.4	8.3	3.6	1.3	2.2	5.2	11.9	16.9	.0	1.0	58.7	
	TOT %	8.4	8.3	3.6	1.3	2.2	5.5	11.9	16.9	.0	1.0	59.0	
TOT OBS													305
TOT PCT													
		15.2	14.4	7.0	2.5	8.0	7.5	17.5	26.8	.0	1.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.3	.0	.0	.0	.0	.0	.3	.0	.0	.8	
	11-21	.0	.6	.3	.0	.3	.6	.0	.0	.0	.0	1.7	
	22+	.4	.8	.4	.0	.0	.0	.0	.6	.0	.0	2.2	
	TOT %	.7	1.7	.7	.0	.3	.6	.0	.8	.0	.0	4.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.4	.0	.0	.0	.0	.0	.0	.1	.0	.0	.6	
	11-21	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	22+	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.3	
	TOT %	.6	.0	.0	.1	.2	.0	.0	.2	.0	.0	1.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.6	
	11-21	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.3	.0	.0	.3	.0	.3	.0	.0	.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	.0	.0	.6	.0	.0	.3	.0	.0	1.1	
	11-21	.3	.0	.0	.0	.8	.3	.4	.7	.0	.0	2.8	
	22+	.0	.3	.0	.0	.0	.0	.0	.8	.0	.0	1.1	
	TOT %	.6	.3	.0	.0	1.3	.3	.4	1.8	.0	.0	5.1	
5<10	0-3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	4-10	1.1	1.0	1.0	.4	1.3	.9	1.3	.6	.0	.0	7.9	
	11-21	1.9	1.3	.7	.2	2.0	.1	2.7	2.6	.0	.0	11.5	
	22+	1.3	.8	.3	.0	.3	.2	.8	2.9	.0	.0	6.7	
	TOT %	4.6	3.4	2.0	.6	3.6	1.2	5.1	6.2	.0	.0	26.7	
10+	0-3	.3	.1	.1	.0	.0	.8	.3	.3	.0	1.1	3.1	
	4-10	2.0	2.4	.4	.1	.9	1.5	4.1	4.8	.0	.0	16.3	
	11-21	3.9	3.2	1.6	1.2	.8	3.0	7.2	9.3	.0	.0	30.3	
	22+	1.8	1.5	1.1	.1	.1	.4	1.8	5.0	.0	.0	11.8	
	TOT %	8.0	7.2	3.2	1.4	1.9	5.8	13.4	19.4	.0	1.1	61.5	
TOT OBS													356
TOT PCT													
		14.5	12.6	6.2	2.4	7.3	8.1	19.0	28.7	.0	1.1	100.0	

MARCH

PERIOD: (PRIMARY) 1934-1966
(OVER-ALL) 1910-1966AREA 0028 SEA OF JAPAN N
42.1N 135.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.4	.0	.0	1.4	10.0	15.7	4.3	.0	2.9	2.9	38.6	61.4	70
06009	.0	.0	.0	.0	6.2	10.8	7.7	1.5	3.1	3.1	32.3	67.7	65
12015	1.6	.0	.0	.0	3.1	10.9	9.4	1.6	.0	1.6	28.1	71.9	64
18021	1.6	.0	.0	1.6	7.8	12.5	9.4	.0	.0	1.6	34.4	65.6	64
TOT	3	0	0	2	18	33	20	2	4	6	88	175	263
PCT	1.1	.0	.0	.8	6.8	12.5	7.6	.8	1.5	2.3	33.5	66.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	5.2	4.2	2.1	2.1	13.5	72.9	96
06009	6.5	.0	1.1	3.2	23.7	65.6	93
12015	4.3	.0	.0	9.8	39.1	46.7	92
18021	3.4	.0	.0	6.9	33.3	56.3	87
TOT	18	4	3	20	100	223	368
PCT	4.9	1.1	.8	5.4	27.2	60.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	3.0	6.1	12.1	27.3	60.6	66
06009	1.6	1.6	3.1	29.7	67.2	64
12015	3.4	3.4	10.3	24.1	65.5	58
18021	1.7	1.7	11.9	27.1	61.0	59
TOT	6	8	23	67	157	247
PCT	2.4	3.2	9.3	27.1	63.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
43/49	.0	.0	.0	.0	.0	1.8	.0	.0	1	1.8
40/44	.0	.0	.0	.0	.0	.0	5.3	.0	3	5.3
35/39	.0	.0	.0	3.9	10.5	1.8	5.3	1.8	13	22.8
30/34	.0	.0	.0	.0	19.3	8.8	1.8	12.3	24	42.1
25/29	.0	.0	1.8	5.3	7.0	1.8	1.8	3.5	12	21.1
20/24	.0	.0	.0	5.3	1.8	.0	.0	.0	4	7.0
TOTAL	0	0	1	8	22	8	5	13	57	100.0
PCT	.0	.0	1.8	14.0	38.6	14.0	8.9	22.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0
.0	.0	.0	.4	4.8	.0	.0	.0	.0	.0
3.9	2.2	5.3	.0	.0	2.2	6.1	3.1	.0	.0
7.5	10.1	6.1	.0	5.3	1.8	4.4	7.0	.0	.0
2.2	1.8	.0	.0	.0	.0	4.4	12.7	.0	.0
.0	.0	.0	.0	.0	.0	1.3	5.7	.0	.0
13.6	14.0	11.4	.4	10.1	5.7	16.2	28.5	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	50	46	40	33	21	12	12	32.1	104
06009	50	49	43	35	29	16	16	34.2	96
12015	43	40	38	32	23	13	13	31.4	107
18021	50	46	39	32	20	13	13	31.1	95
TOT	50	46	41	33	21	16	12	32.2	402

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	18.2	36.4	18.2	.0	27.3	72	11		
06009	.0	11.1	55.6	5.6	5.6	22.2	72	18		
12015	.0	16.7	16.7	16.7	25.0	25.0	77	12		
18021	.0	18.8	37.5	18.8	6.3	18.8	71	16		
TOT	0	9	22	8	5	13	73	57		

MARCH

PERIOD: (PRIMARY) 1934-1966
(OVER-ALL) 1910-1966

TABLE 17

AREA 0028 SEA OF JAPAN N
42.1N 139.3EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	M FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	2	.0	.7
9/10	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	1	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.3	.7	.3	.0	4	.7	.7
6	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	4	.3	1.0
5	.0	.0	.0	.0	.0	1.0	1.7	.7	.3	.0	11	.7	3.1
4	.0	.0	.0	.0	.0	2.8	2.4	.3	.3	.0	17	.3	5.6
3	.0	.0	.0	.0	.0	1.0	1.0	.3	.0	.0	7	.0	2.4
2	.0	.0	.0	.0	.3	7.3	.3	.3	.3	.0	25	1.0	7.7
1	.0	.0	.0	.0	.0	4.5	.7	.3	.0	.0	16	.7	4.9
0	.0	.0	.0	.0	3.8	5.6	3.1	.0	.0	.0	36	.0	12.6
-1	.0	.0	.0	.0	2.1	2.4	.0	.0	.0	.0	13	.3	4.2
-2	.0	.0	.0	1.0	4.5	4.2	.3	.7	.0	.0	31	.7	10.1
-3	.0	.0	.0	1.0	.7	1.4	.7	.0	.0	.0	11	.0	3.8
-4	.0	.0	.0	1.7	2.4	3.8	.7	.3	.0	.0	26	.0	9.1
-5	.0	.0	.3	1.4	2.8	.0	.0	.0	.0	.0	13	.0	4.5
-6	.0	.0	.0	.3	.7	.3	.0	.0	.0	.0	4	.0	1.4
-7/-8	.0	.0	1.0	4.5	1.0	.0	.3	.0	.0	.0	20	.0	7.0
-9/-10	.0	.0	1.4	2.8	1.7	.0	.3	.0	.0	.0	10	.0	6.3
-11/-13	.0	1.4	1.7	1.4	.3	.0	.0	.0	.0	.0	14	.0	4.9
-14/-16	.7	.7	1.0	1.0	.3	.0	.0	.0	.0	.0	12	.0	4.2
-17/-19	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	3		16		60		40		4		286	14	272
PCT	1.0	2.1	5.6	15.4	21.0	35.0	14.0	4.2	1.4	.3	100.0	4.9	93.1

PERIOD: (OVER-ALL) 1963-1966

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	.4	1.9	.0	.0	.0	2.3	.0	.0	1.5	.0	.0	.0	1.5
3-4	.0	.6	1.5	.4	.0	.0	2.5	.0	.6	1.8	.1	.0	.0	2.5
5-6	.0	.0	.0	.4	.0	.0	.4	.0	.0	1.9	.6	.0	.0	2.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	1.2	1.8	.0	.0	2.9
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.7	1.2	.6	.0	2.5
12	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.4	1.8	.0	.0	2.2	.0	.0	.3	.9	.6	.0	1.8
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.6
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	4.2	4.2	.0	.0	11.0	.0	2.0	7.9	4.5	1.8	.0	16.2

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.7	.0	.0	.0	1.3
3-4	.0	.0	1.2	.4	.0	.0	1.6	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	.4	1.8	.0	.0	2.2	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.6	.0	.0	.6	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.4	.9	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.7	3.7	.0	.0	7.3	.0	.6	2.3	.0	.0	.0	3.1

PERIOD: (OVER-ALL) 1963-1966

MARCH

AREA 0028 SEA OF JAPAN N
42.1N 135.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.4	.0	.0	.0	.4	.0	.6	.7	.0	.0	.0	1.3
3-4	.0	1.0	1.3	.0	.0	.0	2.3	.0	1	1.5	.0	.0	.0	1.6
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.4	.6	.0	.0	1.0	.0	.0	.0	.6	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	9.1	.6	.0	.0	4.7	.0	.7	3.5	.7	.0	.0	5.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.0	.6	.0	.0	.0	1.6	.0	.1	.0	.0	.0	.0	.1	
1-2	.0	3.8	3.8	.0	.0	.0	7.6	.0	1.6	2.0	.0	.0	.0	3.7	
3-4	.0	.0	3.7	.0	.0	.0	3.7	.0	.0	3.7	2.5	.0	.0	6.1	
5-6	.0	.0	6.3	2.5	.0	.0	8.8	.0	.0	4.1	1.2	.0	.0	5.3	
7	.0	.0	.0	.6	.4	.0	1.0	.0	.0	.6	1.8	.7	.0	3.1	
8-9	.0	.0	.6	.4	.0	.0	1.0	.0	.0	.0	3.2	.0	.0	3.2	
10-11	.0	.0	.6	.4	.0	.0	1.0	.0	.0	.0	1.2	.6	.0	1.8	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.6	.0	2.9	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.6	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.8	13.5	3.9	.4	.0	24.7	.0	1.8	10.5	12.1	2.5	.0	26.9	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.2	4.1	.6	.0	.0	.0	5.8	
1-2	.0	7.0	12.3	.0	.0	.0	19.3	
3-4	.0	2.3	15.8	3.5	.0	.0	21.6	
5-6	.0	.0	15.2	6.4	.0	.0	21.6	
7	.0	.0	1.8	4.1	1.2	.0	7.0	
8-9	.0	.0	1.8	6.4	.0	.0	8.2	
10-11	.0	.0	1.8	3.5	1.2	.0	6.4	
12	.0	.0	.6	.0	.0	.0	.6	
13-16	.0	.0	1.2	5.8	1.2	.0	8.2	
17-19	.0	.0	.0	.0	.6	.0	.6	
20-22	.0	.0	.0	.0	.6	.0	.6	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.2	13.5	50.9	29.8	4.7	.0	100.0	171

PERIOD: (OVER-ALL) 1944-1966

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	6.3	12.6	10.4	2.3	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	4
6-7	.5	.5	1.4	2.3	2.7	1.8	.9	.9	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	7
8-9	.0	.0	.3	.3	.5	.5	.5	.5	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	10
10-11	.0	.0	.0	.0	.5	.5	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
12-13	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	14
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	3.2	9.9	10.8	9.0	3.6	2.3	3.2	.9	2.7	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	102	5
TOTAL	8	37	56	49	21	14	12	5	18	1	1	0	0	0	0	0	0	0	0	222	5
PCT	3.6	16.7	25.2	22.1	9.5	6.3	5.4	2.3	8.1	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1969
(OVER-ALL) 1884-1969

APRIL

AREA 0028 SEA OF JAPAN N
42.0N 135.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	12.7	.0	.0	12.7	.0	.0	7.3	.0	.0	.0	80.0
NE	7.1	.0	3.6	.0	.0	.0	.0	10.7	.0	.0	7.1	.0	3.6	.0	78.6
E	.0	.0	16.7	.0	5.6	.0	.0	22.2	.0	.0	11.1	.0	.0	.0	66.7
SE	27.1	.0	.0	.0	.0	.0	.0	27.1	.0	.0	6.3	.0	.0	.0	66.7
S	6.4	.0	.0	.0	.0	.0	.0	6.4	.0	.0	18.3	.0	.0	.0	75.2
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.7	.4	.0	.0	78.9
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.3	1.0	.0	.0	86.8
NW	.0	.0	2.3	.0	2.9	.0	.0	5.2	.0	.0	7.0	.0	.0	.0	87.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44.4	.0	.0	.0	55.6
TOT PCT OBS:	2.4	.0	1.7	.0	1.4	.0	.0	5.5	.0	.0	13.8	.3	.3	.0	80.0

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0603	2.3	.0	2.3	.0	1.1	.0	.0	5.7	.0	.0	20.7	.0	.0	.0	73.6
0609	3.6	.0	.0	.0	1.2	.0	.0	4.8	.0	.0	13.1	1.2	.0	.0	81.0
1215	1.7	.0	3.4	.0	1.7	.0	.0	6.9	.0	.0	8.6	.0	.0	.0	84.5
1821	3.0	.0	1.5	.0	1.5	.0	.0	6.0	.0	.0	9.0	.0	1.5	.0	83.6
TOT PCT TOT OBS:	2.7 296	.0	1.7	.0	1.4	.0	.0	5.7	.0	.0	13.5	.3	.3	.0	80.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	1.9	3.3	.9	.0	.0		6.6	14.3		7.6	12.1	9.3	.0	7.5	6.7	2.5	.0
NE	.3	1.7	4.6	.8	.5	.0		7.7	15.6		7.2	6.4	9.7	10.0	3.8	1.7	11.9	9.1
E	.4	1.9	7.4	.3	.0	.0		5.0	12.0		5.3	1.4	7.3	.0	7.9	3.3	4.5	2.3
SE	.5	1.6	1.8	.1	.0	.0		4.0	10.7		.0	2.9	3.7	6.3	7.5	11.7	.4	9.1
S	.9	3.5	4.6	.7	.3	.0		9.9	12.7		6.9	8.6	11.0	16.3	13.8	10.0	8.6	5.7
SW	1.7	9.1	9.4	1.6	.0	.0		21.8	11.8		18.8	32.1	21.3	37.5	19.2	28.3	14.8	20.5
W	.7	11.8	10.8	3.1	.0	.0		26.5	12.8		29.3	17.9	23.7	22.5	23.3	21.7	34.4	36.4
NW	1.1	7.0	5.7	1.2	.3	.0		15.2	11.7		17.1	18.6	10.0	7.5	17.1	16.7	19.7	8.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0		7.9	.0	4.0	.0	.0	.0	3.3	9.1
TOT OBS	35	146	162	32	4	0		379	12.2		76	35	75	20	60	20	61	22
TOT PCT	9.2	38.5	42.7	8.4	1.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.9	2.5	3.0	.2	.0		6.6	14.3	9.0	7.4	7.2	1.8	
NE	1.3	3.6	2.2	.3	.3		7.7	15.6	7.0	9.7	3.1	11.1	
E	1.3	2.4	1.3	.0	.0		5.0	12.0	4.1	5.8	6.4	3.9	
SE	1.1	2.3	.7	.0	.0		4.0	10.7	.9	4.2	8.9	2.7	
S	2.0	5.1	2.6	.3	.0		9.9	12.7	7.4	12.1	12.5	7.8	
SW	4.6	11.7	5.4	.0	.0		21.8	11.8	23.0	24.7	22.2	16.3	
W	5.1	14.1	5.9	1.3	.0		26.5	12.8	25.7	23.4	22.8	34.9	
NW	3.6	8.6	2.4	.6	.0		15.2	11.7	17.6	9.3	16.9	16.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.4						3.4	.0	5.4	3.2	.0	4.8	
TOT OBS	88	191	89	10	1	379		12.2	111	95	90	83	
TOT PCT	23.2	50.4	23.5	2.6	.3		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1935-1969
(OVER-ALL) 1864-1969

APRIL

AREA 0028 SEA OF JAPAN N
42.0N 135.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	5.4	4.5	35.1	45.0	8.1	1.8	.0	12.7	100.0	111
0600	3.2	3.2	40.0	38.9	12.6	2.1	.0	13.3	100.0	99
1200	.0	6.7	44.4	44.4	4.4	.0	.0	11.3	100.0	90
1800	4.8	9.6	34.9	42.2	8.4	.0	.0	11.2	100.0	83
TOT	13	22	146	162	32	4	0	12.2		379
PCT	3.4	5.8	38.5	42.7	8.4	1.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	.5	.0	3.0		5.1
NE	.6	.0	2.5	6.0		7.1
E	1.4	.5	2.0	1.9		5.3
SE	1.3	.5	.7	.7		3.5
S	6.9	.0	.7	2.8		2.7
SW	11.7	.5	1.7	5.1		2.9
W	19.2	1.2	2.9	4.4		2.3
NW	10.4	1.6	1.0	2.1		2.4
VAR	.0	.0	.0	.0		.0
CALM	1.9	.0	.9	1.9		4.5
TOT OBS	119	10	27	60	216	3.3
TOT PCT	55.1	4.6	12.5	27.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											
000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	1.6	1.0	.0	.0	.3	.0	2.2	
.0	.0	.0	.0	3.2	3.6	.0	.0	.1	.5	1.7	
.5	.0	.0	.0	.9	.9	.3	.0	.0	.0	3.0	
.1	.0	.0	.0	.5	.5	.1	.0	.0	.1	2.3	
.7	.0	.0	.0	.5	.0	.0	.0	1.6	.3	7.3	
1.0	.0	.0	.0	2.3	1.6	.6	.0	.7	.0	12.7	
1.9	.0	.0	.0	.9	2.1	.7	.0	.0	.5	21.6	
.5	.0	.0	.0	1.2	.9	.1	.0	.0	.0	12.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.9	.0	.0	.0	.5	.5	.0	.0	.0	.0	1.9	
14	0	0	0	24	24	4	0	6	3	141	216
6.5	.0	.0	.0	11.1	11.1	1.9	.0	2.8	1.4	65.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >4500	2.8	3.2	4.2	4.2	4.2	4.2	4.2	4.2
= OR >3000	2.8	3.2	4.2	4.2	4.2	4.2	4.2	4.2
= OR >1500	3.7	4.6	6.5	6.5	6.5	6.5	6.5	6.5
= OR >1000	10.6	14.4	16.7	17.1	17.6	17.6	17.6	17.6
= OR >600	13.9	22.2	26.9	27.8	28.7	28.7	29.2	29.2
= OR >300	13.9	22.2	26.9	27.8	28.7	28.7	29.2	29.2
= OR >150	13.9	22.2	26.9	27.8	28.7	28.7	29.2	29.2
= OR >0	13.9	22.2	27.3	28.2	29.2	30.1	35.2	35.2
TOTAL	30	48	59	61	63	65	76	76

TOTAL NUMBER OF OBS: 216

PCT FREQ NH <5/8: 64.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
48.1	3.8	6.3	3.4	1.7	2.1	3.8	3.8	21.1	237

PERIOD: (PRIMARY) 1933-1969
(OVER-ALL) 1884-1969

APRIL

AREA 0028 SEA OF JAPAN N
42.0N 135.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
	NO PCP	.3	.0	.3	.0	.3	.7	1.7	.3	.0	1.4	9.2	
	TOT %	.3	.0	.3	.0	.7	.7	1.7	.3	.0	1.4	9.5	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
1<2	PCP	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.3	.0	.2	.2	.7	.0	.0	.0	.0	1.4	
	TOT %	.0	.3	.7	.2	.2	.7	.0	.0	.0	.0	2.1	
2<5	PCP	.0	.7	.3	1.1	.3	.0	.0	.0	.0	.0	2.4	
	NO PCP	.0	.4	.6	.3	1.9	2.8	1.8	1.8	.0	.0	9.7	
	TOT %	.0	1.1	.9	1.4	2.2	2.8	1.8	1.8	.0	.0	12.1	
5<10	PCP	.8	.3	.3	.0	.0	.0	.0	.9	.0	.0	2.4	
	NO PCP	.7	2.6	2.3	.4	1.6	2.2	4.3	2.7	.0	.3	17.2	
	TOT %	1.6	2.9	2.7	.4	1.6	2.2	4.3	3.5	.0	.3	19.7	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	3.1	9.3	1.6	2.2	4.5	14.0	18.9	9.2	.0	1.4	60.0	
	TOT %	3.1	9.3	1.6	2.2	4.5	14.0	18.9	9.2	.0	1.4	60.0	
TOT OBS													290
TOT PCT		5.0	9.7	6.2	4.1	9.1	21.1	26.7	14.9	.0	3.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.6	.3	.0	.0	.0	1.8	2.7	
	4-10	.3	.2	.3	.0	.3	.0	.6	.0	.0	.0	1.8	
	11-21	.0	.0	.0	.0	.3	.6	.9	.3	.0	.0	2.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.2	.3	.0	1.2	.9	1.5	.3	.0	1.8	6.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.0	.0	.8	.2	.0	.0	.0	.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.6	
	22+	.0	.3	.0	.2	.2	.3	.0	.0	.0	.0	.9	
	TOT %	.0	.3	.6	.2	.2	.6	.0	.0	.0	.0	1.8	
2<5	0-3	.0	.0	.0	.5	.2	.3	.0	.3	.0	.0	1.2	
	4-10	.0	.0	.0	.4	.5	.8	.5	.8	.0	.0	2.7	
	11-21	.2	.8	.5	1.0	1.0	1.1	.8	.8	.0	.0	6.1	
	22+	.0	.3	.3	.0	.3	.3	.2	.1	.0	.0	1.3	
	TOT %	.2	1.1	.8	1.8	1.9	2.5	1.6	1.6	.0	.0	11.6	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.2	.5	1.0	.4	.9	1.9	2.0	1.7	.0	.0	8.5	
	11-21	.3	2.1	1.4	.0	1.1	1.0	1.8	1.3	.0	.0	9.1	
	22+	.8	.1	.0	.0	.0	.0	.3	.1	.0	.0	1.2	
	TOT %	1.4	2.6	2.4	.4	2.1	2.9	4.1	3.1	.0	.3	19.1	
10+	0-3	.3	.3	.5	.2	.3	1.1	.2	.6	.0	1.2	4.6	
	4-10	1.3	1.4	.6	1.1	1.4	6.7	7.3	3.4	.0	.0	23.1	
	11-21	2.2	2.4	.6	.7	2.0	6.2	8.0	3.8	.0	.0	23.8	
	22+	.0	.6	.0	.0	.6	.6	3.0	1.5	.0	.0	6.4	
	TOT %	3.8	4.6	1.7	1.9	4.3	14.6	18.3	9.3	.0	1.2	59.9	
TOT OBS													379
TOT PCT		5.8	8.8	5.8	4.3	9.6	22.3	25.8	14.4	.0	3.3	100.0	

APRIL

PERIOD: (PRIMARY) 1933-1969
(OVER-ALL) 1884-1969AREA 0028 SEA OF JAPAN N
42.0N 135.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	6.9	.0	.0	.0	15.3	15.3	.0	.0	5.6	1.4	44.4	55.6	72
06009	2.9	.0	.0	.0	11.8	10.3	5.9	.0	1.5	1.5	33.8	66.2	68
12015	5.0	.0	.0	.0	10.0	.0	2.5	.0	2.5	2.5	22.5	77.5	40
18021	10.6	.0	.0	.0	4.3	12.8	.0	.0	.0	.0	27.7	72.3	67
TOT	14	0	0	0	25	24	5	0	6	3	77	150	227
PCT	6.2	.0	.0	.0	11.0	10.6	2.2	.0	2.6	1.3	33.9	66.1	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	7.2	1.0	2.1	12.4	17.5	59.8	97
06009	3.4	.0	2.2	14.6	15.7	64.0	89
12015	5.6	1.4	1.4	12.5	23.6	55.6	72
18021	10.4	1.3	1.3	6.5	23.4	57.1	77
TOT	22	3	6	39	66	199	335
PCT	6.6	.9	1.8	11.6	19.7	59.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	7.2	8.7	24.6	30.4	44.9	69
06009	1.5	3.1	21.5	20.0	58.5	65
12015	5.3	7.9	21.1	15.8	63.2	38
18021	11.4	11.4	18.2	18.2	63.6	44
TOT	13	16	47	48	121	216
PCT	6.0	7.4	21.8	22.2	56.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
30/34	.0	.0	.0	.0	3.0	.0	.0	.0	2	3.0
45/49	.0	.0	.0	.0	.0	3.0	3.0	3.0	6	9.0
40/44	.0	.0	.0	3.0	4.5	10.4	16.4	9.0	29	43.3
35/39	.0	.0	.0	1.5	1.5	9.0	16.4	14.9	29	43.3
30/34	.0	.0	.0	.0	.0	.0	.0	1.5	1	1.5
TOTAL	0	0	0	3	6	19	24	19	67	100.0
PCT	.0	.0	.0	4.5	9.0	22.4	35.8	28.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
30/34	1.5	.0	1.5	.0	.0	.0	.0	.0	.0	.0
45/49	.0	4.5	.0	.0	.0	1.9	1.1	.0	.0	1.5
40/44	3.4	.0	1.1	1.1	4.9	8.2	20.1	3.0	.0	1.5
35/39	1.1	6.3	3.0	.4	7.1	11.2	10.4	3.7	.0	.0
30/34	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	6.0	12.3	5.6	1.5	11.9	21.3	31.7	6.7	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	57	50	48	41	34	25	25	40.7	111
06009	55	54	52	41	33	27	27	42.0	90
12015	55	48	45	39	32	28	28	38.7	87
18021	57	56	45	37	27	23	23	37.2	83
TOT	57	54	48	39	32	27	23	39.7	371

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	12.5	4.2	20.8	33.3	29.2	81	24
06009	.0	.0	18.2	18.2	36.4	27.5	82	22
12015	.0	.0	.0	27.3	36.4	36.4	85	11
18021	.0	8.3	8.3	25.0	33.3	23.0	82	12
TOT	0	4	6	15	24	20	82	69

APRIL

PERIOD: (PRIMARY) 1933-1969
(OVER-ALL) 1884-1969AREA 0028 SEA OF JAPAN N
42.0N 135.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	N FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	1	.0	.4
14/16	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	4	.0	1.4
11/13	.0	.0	.0	.0	.0	.4	1.8	1.1	.0	.0	9	.4	2.9
9/10	.0	.0	.0	.0	.0	1.1	.7	.0	.0	.0	5	.4	1.4
7/8	.0	.0	.0	.0	.7	2.2	1.8	.0	.4	.4	15	.0	5.4
6	.0	.0	.0	.0	.4	1.1	.7	.0	.0	.0	6	.7	1.4
5	.0	.0	.0	.0	1.4	4.7	2.2	.4	.0	.4	25	.4	8.7
4	.0	.0	.0	.0	4.3	4.0	2.9	.4	.4	.0	33	2.2	9.7
3	.0	.0	.0	.0	2.5	1.4	.4	.0	.0	.0	12	.7	3.6
2	.0	.0	.0	2.5	9.4	5.1	.7	.0	.0	.0	49	1.4	16.2
1	.0	.0	.0	3.2	3.2	.0	.0	.0	.0	.0	18	1.4	5.1
0	.0	.0	.0	5.4	5.1	3.6	.4	.0	.4	.0	41	2.2	12.6
-1	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	2	.0	.7
-2	.0	.0	.4	3.6	2.9	.4	.7	.0	.0	.0	22	1.4	6.5
-3	.0	.0	.0	1.1	.4	.0	.0	.0	.0	.0	4	.0	1.4
-4	.0	.0	.4	1.4	.7	.0	.4	.0	.0	.0	8	.0	2.9
-5	.0	.0	.4	1.8	.0	.7	.4	.0	.0	.0	9	.4	2.9
-6	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	1	.0	.4
-7/-8	.0	1.4	.0	.0	.4	.0	.0	.0	.0	.0	5	.0	1.8
-9/-10	.0	.4	.0	.0	.4	.4	.0	.0	.0	.0	4	.4	1.1
-11/-13	.4	.7	.0	.0	.4	.0	.0	.0	.0	.0	4	.0	1.4
TOTAL	1	7	3	53	92	69	37	9	4	2	277	33	244
PCT	.4	2.5	1.1	19.1	33.2	24.9	13.4	3.2	1.4	.7	100.0	11.9	88.1

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.6	.0	.0	.0	1.9
1-2	.0	.6	.9	.0	.0	.0	1.6	.0	.0	1.9	.0	.0	.0	1.9
3-4	.0	.0	.6	.0	.0	.0	.6	.0	.6	2.5	.0	.0	.0	3.1
5-6	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	2.8	.0	.0	.0	2.8
7	.0	.0	.0	.5	.0	.0	.5	.0	.0	.6	.8	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.6
17-19	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	3.1	1.6	.0	.0	5.3	.0	1.9	8.4	.8	1.2	.0	12.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.0	.0	.0	.0	.3	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	.6	.9	.0	.0	.0	1.6	.0	.6	.6	.0	.0	.0	1.2
3-4	.0	.6	1.9	.6	.0	.0	3.1	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	4.0	.6	.0	.0	6.4	.0	1.7	1.4	.0	.0	.0	3.1

PERIOD: (OVER-ALL) 1963-1969

APRIL

AREA 0028 SEA OF JAPAN N
42.0N 139.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.6	.0	.0	.0	.0	1.6	1.2	1.4	.2	.0	.0	.0	2.8	
1-2	.0	.5	2.2	.0	.0	.0	2.6	.0	5.1	2.8	.0	.0	.0	7.9	
3-4	.0	.0	.6	.6	.0	.0	1.2	.0	.0	3.1	.6	.0	.0	3.7	
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	2.0	.6	.0	.0	2.6	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	2.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	
10-11	.0	.0	.5	.6	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.0	4.5	1.2	.6	.0	8.4	1.2	6.5	11.2	1.2	.0	.0	20.2	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	3.1	.5	.0	.0	.0	3.6	.6	.5	.0	.0	.0	.0	1.1	
1-2	.0	1.1	6.2	.0	.0	.0	7.3	.0	1.4	.6	.0	.0	.0	2.0	
3-4	.0	.5	9.7	.6	.0	.0	6.8	.0	.8	1.1	.6	.0	.0	2.5	
5-6	.0	.5	3.7	.6	.0	.0	4.8	.0	.2	1.1	.0	.0	.0	1.2	
7	.0	.0	1.2	1.2	.0	.0	2.5	.0	.0	.6	.0	.0	.0	.6	
8-9	.0	.0	.5	.0	.0	.0	.5	.0	.0	.8	.0	.0	.0	.8	
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.6	.0	.0	.0	.6	
12	.0	.0	.0	1.9	.0	.0	1.9	.0	.0	.6	.0	.0	.0	.6	
13-16	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	5.1	17.9	5.6	.0	.0	28.6	.6	2.8	4.8	1.4	.0	.0	9.6	93.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.1	9.3	1.2	.0	.0	.0	18.6	
1-2	.0	9.9	16.1	.0	.0	.0	26.1	
3-4	.0	2.5	16.1	3.1	.0	.0	21.7	
5-6	.0	.6	13.7	1.2	.0	.0	15.5	
7	.0	.0	5.0	2.5	.0	.0	7.5	
8-9	.0	.0	1.9	.0	.0	.0	1.9	
10-11	.0	.0	1.2	1.2	.0	.0	2.5	
12	.0	.0	.0	2.5	.6	.0	3.1	
13-16	.0	.0	.0	.6	1.2	.0	1.9	
17-19	.0	.0	.0	1.2	.0	.0	1.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.1	22.4	55.3	12.4	1.9	.0	100.0	161

PERIOD: (OVER-ALL) 1951-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	13.7	10.8	6.9	2.5	.0	.5	1.0	.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	4
6-7	.0	1.0	4.4	4.9	1.3	.5	1.0	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	6
8-9	.0	.0	.5	.5	.5	.5	.5	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
10-11	.0	.0	.0	.0	.0	.5	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	12
12-13	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	5.9	12.3	10.8	6.9	4.4	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	3
TOTAL	12	55	54	39	18	7	5	7	5	2	0	0	0	0	0	0	0	0	0	204	4
PCT	5.9	27.0	26.5	19.1	8.8	3.4	2.5	3.4	2.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1968
(OVER-ALL) 1879-1968

MAY

AREA 0028 SEA OF JAPAN N
42.3N 135.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	2.4	.0	.0	.0	.0	2.4	.0	.0	14.6	3.7	.0	.0	79.3
NE	.0	.0	5.9	.0	.0	.0	.0	5.9	2.9	.0	31.6	4.4	.0	.0	55.1
E	.0	.0	5.4	.0	.0	.0	.0	5.4	2.7	.0	21.1	4.8	2.0	.0	63.9
SE	5.5	.0	4.8	.0	.0	.0	.0	10.3	2.8	.0	33.8	.0	6.2	.0	46.9
S	1.0	3.6	6.6	.0	.0	.0	.0	11.2	2.0	.0	17.8	2.0	2.0	.0	65.0
SW	.7	.3	.0	.0	.0	.0	.0	1.0	.0	.0	23.1	.0	1.3	.0	74.6
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.3	.0	1.8	.0	82.9
NW	.0	.0	1.9	.0	.0	.0	.0	1.9	.0	.0	25.0	3.8	7.7	.0	61.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.8	.0	.0	.0	76.2
TOT PCT	.8	.6	2.8	.0	.0	.0	.0	4.2	1.1	.0	22.5	1.7	2.3	.0	68.2
TOT OBS:	355														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
06003	.9	1.8	1.8	.0	.0	.0	.0	4.6	.0	.0	25.7	1.8	1.8	.0	66.1
06009	.0	.0	1.2	.0	.0	.0	.0	1.2	1.2	.0	20.0	2.4	1.2	.0	74.1
12015	1.2	.0	2.3	.0	.0	.0	.0	3.5	.0	.0	17.4	1.2	1.2	.0	76.7
18021	1.1	.0	5.7	.0	.0	.0	.0	6.8	3.4	.0	23.9	1.1	4.5	.0	60.2
TOT PCT	.8	.5	2.7	.0	.0	.0	.0	4.1	1.1	.0	22.0	1.6	2.2	.0	69.0
TOT OBS:	368														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.0	3.2	2.1	.2	.0	.0		6.4	9.7	10.0	7.0	5.5	2.9	7.3	6.4	3.0	7.8	
NE	1.1	6.0	2.4	.7	.0	.0		10.1	9.9	13.8	9.6	7.4	2.9	11.1	11.5	13.2	3.1	
E	1.4	3.0	4.8	.0	.0	.0		9.3	10.8	10.0	11.4	6.3	10.7	9.0	5.1	12.5	6.3	
SE	2.1	3.6	4.3	.3	.0	.0		10.3	9.7	17.1	6.1	6.6	5.0	6.3	7.7	11.8	21.9	
S	.4	7.4	5.9	.6	.0	.0		13.9	10.7	9.4	13.2	19.9	8.6	14.6	20.5	12.8	14.1	
SW	1.6	7.2	11.4	1.3	.0	.0		21.5	12.2	14.7	24.6	27.3	35.0	20.1	23.1	12.2	30.5	
W	1.5	7.1	5.6	.3	.0	.0		14.6	10.0	11.5	19.3	13.7	16.4	20.5	14.1	12.2	7.0	
NW	.2	5.3	2.0	.3	.0	.0		8.0	9.5	6.5	7.0	5.5	12.9	5.6	11.5	10.5	9.4	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.9							5.9	.0	7.1	1.8	7.8	5.7	5.6	.0	11.8	.0	
TOT OBS	70	198	179	17	0	0	460		10.0	85	57	64	35	72	39	76	32	
TOT PCT	15.2	43.0	38.0	3.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	2.5	3.1	.6	.2	.0		6.4	9.7	8.8	4.5	7.0	4.4	
NE	3.0	5.5	1.4	.2	.0		10.1	9.9	12.1	5.8	11.3	10.2	
E	2.3	5.2	1.8	.0	.0		9.3	10.8	10.6	7.8	7.7	10.6	
SE	3.9	5.1	1.3	.0	.0		10.3	9.7	12.7	6.1	6.8	14.8	
S	3.9	7.4	2.6	.0	.0		13.9	10.7	10.9	15.9	16.7	13.2	
SW	4.2	12.3	4.9	.0	.0		21.5	12.2	18.7	30.1	21.2	17.6	
W	5.0	7.7	1.7	.2	.0		14.6	10.0	14.6	14.6	18.2	10.6	
NW	3.2	3.6	1.2	.0	.0		8.0	9.5	6.7	8.1	7.7	10.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	5.9						5.9	.0	4.9	7.1	3.6	8.3	
TOT OBS	156	230	71	3	0	460		10.0	142	79	111	108	
TOT PCT	33.9	50.0	15.4	.7	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1934-1968
(OVER-ALL) 1879-1968

MAY

AREA 0028 SEA OF JAPAN N
42.3N 139.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

	HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	0003	4.9	6.3	48.6	36.6	3.5	.0	.0	10.1	100.0	142
0600	0609	7.1	10.1	36.4	44.4	2.0	.0	.0	9.8	100.0	99
1200	1215	3.6	12.6	45.0	22.4	4.3	.0	.0	10.0	100.0	111
1800	1821	8.3	9.3	39.8	25.8	2.8	.0	.0	9.8	100.0	108
TOT	TOT	27	43	198	175	17	0	0	10.0		480
PCT	PCT	5.9	9.3	43.0	38.0	3.7	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	.7	.0	2.1	2.6		6.3
NE	1.6	.2	2.0	6.4		6.5
E	1.0	1.0	2.2	4.3		6.1
SE	3.2	.9	.9	6.9		5.6
S	6.3	1.5	2.6	4.3		4.1
SW	8.7	1.7	6.2	3.9		3.9
W	7.0	1.5	3.7	2.2		3.3
NW	3.3	.4	1.1	2.4		3.9
VAR	.0	.0	.0	.0		.0
CALM	4.8	.4	.4	2.0		2.7
TOT OBS	92	19	53	88	252	4.5
TOT PCT	36.5	7.5	21.0	34.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) > 4/8
AND OCCURRENCE OF NM < 5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.6	.0	.0	.0	1.3	1.1	.7	.0	.0	.0	1.7	
NE	3.2	.0	.0	.0	.7	3.0	.2	.0	.0	.4	2.8	
E	1.0	.0	.0	1.2	.7	1.7	1.0	.0	.3	.0	2.6	
SE	3.6	.0	.0	1.3	.4	1.2	.6	.0	.5	.0	4.4	
S	1.2	.0	.4	.7	1.1	1.4	.3	.0	.0	.7	8.8	
SW	1.7	.0	.0	.1	1.3	1.6	1.6	.9	.4	.5	12.4	
W	.7	.0	.0	.3	1.2	.3	.8	.3	.4	.0	10.4	
NW	1.6	.0	.0	.0	.9	.5	.0	.4	.0	.0	3.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2	.0	.0	.0	.4	.4	.0	.0	.0	.0	9.6	
TOT OBS	37	0	1	9	20	28	13	4	4	4	132	252
TOT PCT	14.7	.0	.4	3.6	7.9	11.1	5.2	1.6	1.6	1.6	92.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM > 4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.0	2.6	3.2	3.2	3.2	3.2	3.2	3.2
= OR >5000	2.4	4.4	4.8	4.8	4.8	4.8	4.8	4.8
= OR >3500	6.4	9.2	10.8	10.8	10.8	10.8	10.8	10.8
= OR >2000	12.4	20.3	21.9	21.9	21.9	21.9	21.9	21.9
= OR >1000	13.9	25.1	27.9	28.7	28.7	28.7	28.7	28.7
= OR >600	14.3	25.9	30.7	32.3	32.3	32.3	32.3	32.3
= OR >300	14.3	25.9	30.7	32.7	32.7	32.7	32.7	32.7
= OR >150	14.3	25.9	30.7	32.7	32.7	32.7	32.7	32.7
= OR > 0	14.3	25.9	31.1	33.1	33.8	36.3	45.8	47.4
TOTAL	36	65	78	83	84	91	115	119

TOTAL NUMBER OF OBS: 251

PCT FREQ NM < 5/8: 92.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
31.3	9.0	6.5	3.6	4.3	5.0	8.6	2.9	19.4	13.3	278

PERIOD: (PRIMARY) 1934-1968
(OVER-ALL) 1879-1968

MAY

AREA 0028 SEA OF JAPAN N
42.3N 133.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.4	2.6	1.5	2.8	1.1	3.9	.9	1.1	.0	1.1	15.7	
	TOT %	.4	2.6	1.8	2.8	1.1	3.9	.9	1.1	.0	1.1	16.0	
1/2<1	PCP	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.3	.3	.0	.0	.1	.1	.0	.0	.0	.9	
	TOT %	.0	.3	.3	.0	.3	.1	.1	.0	.0	.0	1.1	
1<2	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.1	.2	.3	.3	.2	.5	.4	.0	.0	2.0	
	TOT %	.0	.1	.2	.6	.3	.2	.5	.4	.0	.0	2.3	
2<5	PCP	.1	.0	.3	.7	.3	.1	.0	.1	.0	.0	1.7	
	NO PCP	.7	.6	1.9	.4	.2	1.0	1.3	.0	.0	.9	6.8	
	TOT %	.8	.6	2.1	1.1	.5	1.1	1.3	.1	.0	.9	8.5	
5<10	PCP	.0	.6	.0	.1	1.0	.1	.0	.0	.0	.0	1.7	
	NO PCP	1.7	2.5	3.5	1.9	2.4	5.5	4.1	2.1	.0	.9	24.5	
	TOT %	1.7	3.1	3.5	1.9	3.4	5.6	4.1	2.1	.0	.9	26.2	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	2.8	3.1	2.3	3.6	8.1	10.5	8.7	3.6	.0	3.1	45.9	
	TOT %	2.8	3.1	2.3	3.6	8.1	10.5	8.7	3.6	.0	3.1	45.9	
TOT OBS													351
TOT PCT		5.8	9.7	10.2	10.0	13.7	21.5	15.6	7.4	.0	6.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.3	.3	1.0	.3	.6	.4	.0	.0	1.0	3.9	
	4-10	.2	1.4	.5	.8	.3	1.3	.0	.8	.0	.0	3.2	
	11-21	.2	.5	.9	1.0	.5	1.6	.3	.3	.0	.0	5.4	
	22+	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.4	2.4	1.6	2.8	1.0	3.6	.8	1.0	.0	1.0	14.7	
1/2<1	0-3	.0	.0	.3	.0	.0	.1	.1	.0	.0	.0	.5	
	4-10	.1	.4	.0	.0	.3	.0	.0	.0	.0	.0	.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.4	.3	.0	.3	.1	.1	.0	.0	.0	1.3	
1<2	0-3	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.5	
	4-10	.0	.0	.0	.0	.0	.1	.3	.1	.0	.0	.5	
	11-21	.0	.1	.2	.3	.6	.7	.2	.0	.0	.0	2.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	TOT %	.0	.1	.2	.5	.6	1.1	.5	.4	.0	.0	3.4	
2<5	0-3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.8	1.0	
	4-10	.3	.5	.9	.5	.3	.8	.5	.1	.0	.0	3.9	
	11-21	.5	.3	1.0	.5	.3	.5	.8	.0	.0	.0	3.9	
	22+	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	TOT %	.8	.8	2.1	1.1	.6	1.6	1.3	.1	.0	.8	9.0	
5<10	0-3	.3	.1	.1	.0	.0	.0	.8	.0	.0	1.0	2.3	
	4-10	.5	2.1	1.0	.6	1.5	1.6	1.4	1.2	.0	.0	9.8	
	11-21	.5	.6	2.5	1.0	1.4	3.5	1.7	.6	.0	.0	11.6	
	22+	.3	.3	.0	.3	.3	.3	.1	.1	.0	.0	1.6	
	TOT %	1.6	3.0	3.6	1.9	3.1	5.3	3.9	1.9	.0	1.0	25.3	
10+	0-3	.4	.4	.6	.5	.3	.4	.5	.0	.0	2.8	5.9	
	4-10	1.7	2.1	.8	1.4	4.8	2.8	3.4	2.8	.0	.0	21.7	
	11-21	1.0	1.3	.9	1.7	2.6	3.6	2.7	1.2	.0	.0	17.1	
	22+	.0	.3	.0	.1	.2	.6	.3	.0	.0	.0	1.6	
	TOT %	3.1	4.1	2.3	3.7	7.9	9.6	8.8	4.0	.0	2.8	46.3	
TOT OBS													387
TOT PCT		9.9	10.7	10.0	10.0	13.5	21.2	15.4	7.5	.0	5.7	100.0	

MAY

PERIOD: (PRIMARY) 1934-1968
(OVER-ALL) 1879-1968AREA 0028 SEA OF JAPAN N
42.3N 139.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
0000	17.3	.0	1.2	1.2	6.2	14.8	9.9	1.2	2.5	2.5	56.8	43.2	81
0600	8.3	.0	.0	5.0	8.3	8.3	6.7	1.7	1.7	1.7	41.7	58.3	60
1200	8.5	.0	.0	5.1	8.5	10.2	5.1	.0	.0	.0	37.3	62.7	59
1800	20.6	.0	.0	3.2	7.9	7.9	.0	3.2	1.6	1.6	46.0	54.0	63
TOT	37	0	1	9	20	28	15	4	4	4	122	141	263
PCT	14.1	.0	.4	3.4	7.6	10.6	5.7	1.3	1.3	1.3	48.4	53.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	17.8	.0	2.5	8.5	19.5	51.7	118
0600	9.9	1.1	4.4	8.8	20.9	54.9	91
1200	10.4	2.1	3.1	6.3	36.5	41.7	96
1800	17.9	2.1	4.2	11.6	25.3	38.9	95
TOT	37	5	14	35	101	188	400
PCT	14.3	1.3	3.5	8.8	25.3	47.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <3/8 AND 5+	TOTAL OBS
0000	17.7	19.0	27.8	32.9	39.2	79
0600	8.6	8.6	19.0	25.9	35.2	58
1200	9.1	10.9	21.8	21.8	56.4	59
1800	22.0	22.0	33.9	16.9	49.2	59
TOT	37	39	65	63	123	251
PCT	14.7	15.5	25.9	25.1	49.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	1.3	.0	.0	1	1.3
60/64	.0	.0	.0	.0	.0	.0	1.3	.0	1	1.3
55/59	.0	.0	.0	.0	.0	1.3	2.6	.0	3	3.9
50/54	.0	.0	.0	.0	1.3	2.6	21.1	6.6	24	31.6
45/49	.0	.0	.0	2.6	1.3	5.3	19.7	19.7	37	48.7
40/44	.0	.0	.0	.0	.0	.0	2.6	9.2	9	11.8
35/39	.0	.0	.0	.0	.0	.0	.0	1.3	1	1.3
TOTAL	0	0	0	2	2	8	36	28	76	100.0
PCT	.0	.0	.0	2.6	2.6	10.5	47.4	36.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.0	.3	.0	.0	.0	.0	.0	.0
.0	.0	1.0	.3	.0	.0	.0	.0	.0	.0
.0	1.3	.0	.0	1.3	1.3	.0	.0	.0	.0
1.3	.0	2.3	6.3	5.6	4.9	8.2	3.0	.0	.0
4.6	8.6	1.3	3.9	5.3	14.8	3.6	3.3	.0	1.3
.0	2.6	1.3	1.6	4.9	.3	1.0	.0	.0	.0
.0	.0	.0	.0	1.0	.3	.0	.0	.0	.0
5.9	12.5	6.9	12.5	18.1	21.7	12.8	8.2	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	65	64	57	48	41	30	38	48.3	143
0600	63	62	61	48	43	34	39	49.4	94
1200	62	57	55	47	41	36	36	47.0	111
1800	64	57	54	46	39	37	37	46.4	107
TOT	65	63	57	47	41	37	36	47.8	455

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.0	.0	22.7	40.9	36.4	87	22
0600	.0	10.0	.0	5.0	55.0	30.0	85	20
1200	.0	.0	12.5	6.3	43.8	37.5	86	16
1800	.0	.0	.0	5.3	47.4	47.4	89	19
TOT	0	2	2	8	36	29	87	77

PERIOD: (PRIMARY) 1934-1968
(OVER-ALL) 1879-1968

MAY

AREA 0028 SEA OF JAPAN N
42.3N 133.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 26	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.3	.0	.9	.6	.9	9	.9	1.8
11/13	.0	.0	.0	.3	1.5	.0	.6	.6	10	.6	2.4
9/10	.0	.0	.3	.6	1.8	1.2	1.5	.0	18	.9	4.5
7/8	.0	.0	.3	3.9	2.4	1.5	.3	.3	29	1.8	6.9
6	.0	.0	.3	.9	1.5	.6	.0	.0	11	.6	2.7
5	.0	.0	.6	6.3	2.4	3.0	.0	.0	41	2.4	9.9
4	.0	.3	.9	4.5	2.1	1.5	.0	.0	31	2.7	6.6
3	.0	.3	.0	1.2	1.2	.3	.3	.0	11	1.5	1.8
2	.0	.6	3.3	8.4	2.7	.6	1.2	.0	56	2.7	14.0
1	.3	.6	.6	1.5	.6	.3	.0	.0	13	1.2	2.7
0	.0	.6	3.9	4.2	3.0	.3	.0	.0	40	2.4	9.6
-1	.0	.0	1.8	.9	.0	.0	.0	.0	9	.0	2.7
-2	.0	.6	1.8	4.2	1.2	.6	.0	.0	28	1.5	6.9
-3	.3	.0	.9	.6	.3	.0	.0	.0	7	.9	1.2
-4	.0	.6	.9	2.1	.0	.0	.0	.0	12	.9	2.7
-5	.0	.3	.9	.9	.0	.0	.0	.0	7	.9	1.2
-7/-8	.0	.6	.3	.0	.0	.0	.0	.0	3	.9	.0
TOTAL	2	15	56	136	69	36	15	6	335	76	259
PCT	.6	4.5	16.7	40.6	20.6	10.7	4.5	1.8	100.0	22.7	77.3

PERIOD: (OVER-ALL) 1963-1968

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	M						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.6	2.0	.6	.0	.0	.0	3.3
1-2	.0	.6	.6	.0	.0	.0	1.2	.0	5.0	1.4	.0	.0	.0	6.4
3-4	.0	2.3	.9	.0	.0	.0	3.3	.0	.8	.3	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	1.6	.0	.0	.0	4.5	.6	7.8	3.1	1.2	.0	.0	12.7

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	1.6	.0	.0	.0	.0	2.0	.2	1.4	.6	.0	.0	.0	2.2
1-2	.0	.6	.9	.0	.0	.0	4.0	.6	.3	3.0	.0	.0	.0	3.9
3-4	.0	.0	.0	.0	.0	.0	.9	.0	.8	2.0	.6	.0	.0	3.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.2	4.3	.0	.0	.0	7.0	.8	2.5	6.2	.6	.0	.0	10.1

PERIOD: (OVER-ALL) 1963-1968

MAY

AREA 0028 SEA OF JAPAN N
42.3N 135.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.6	.0	.0	.0	1.9	.0	.0	.2	.0	.0	.0	.2
1-2	.0	2.6	4.5	.0	.0	.0	7.1	.0	2.6	6.8	.0	.0	.0	9.5
3-4	.0	.5	7.8	.0	.0	.0	3.3	.0	1.2	8.4	1.2	.0	.0	10.9
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	1.9	.0	.0	.0	1.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.3	6.5	.0	.0	.0	12.9	.0	3.9	17.2	2.5	.0	.0	23.6

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.2	.5	.0	.0	.0	1.7	.0	1.2	.0	.0	.0	.0	1.2	
1-2	.0	1.9	4.2	.0	.0	.0	6.1	.0	1.9	1.6	.0	.0	.0	3.4	
3-4	.0	1.2	1.6	.0	.0	.0	2.8	.0	.6	.3	.0	.0	.0	.9	
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.6	
7	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	.0	1.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.3	6.8	.0	.0	.0	11.2	.0	5.0	2.5	.0	.0	.0	7.5	89.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.8	8.7	2.5	.0	.0	.0	23.0	
1-2	.6	15.5	25.5	.0	.0	.0	41.6	
3-4	.0	7.5	17.4	1.9	.0	.0	26.7	
5-6	.0	.6	3.7	.6	.0	.0	5.0	
7	.0	.6	1.2	1.2	.0	.0	3.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.6	.0	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.4	32.9	50.3	4.3	.0	.0	100.0	161

PERIOD: (OVER-ALL) 1957-1968

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	2.5	16.7	11.8	4.9	1.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	3
6-7	.0	2.5	2.5	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	4
8-9	.0	.0	1.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
10-11	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	9.8	22.5	12.7	3.9	1.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	2
TOTAL	25	85	58	22	10	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	204	3
PCT	12.3	41.7	28.4	10.8	4.9	1.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1971
(OVER-ALL) 1870-1971

JUNE

AREA 0028 SEA OF JAPAN N
42.9N 133.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.2	2.2	3.8	.0	.0	.0	.0	8.1	2.2	.0	8.6	.0	.0	.0	81.1
NE	8.5	.0	4.6	.0	.0	.0	.0	13.1	1.4	1.7	19.7	.3	1.1	.0	63.2
E	8.9	.0	2.5	.0	.0	.0	.0	11.4	4.4	.0	20.3	1.9	2.5	.0	59.5
SE	16.7	.0	5.6	.0	.0	.0	.0	22.2	.0	.0	23.0	.0	.0	.0	52.8
S	6.1	.0	5.3	.0	.0	.0	.0	11.4	.0	.0	40.9	.0	.0	.0	47.7
SW	.9	.0	1.2	.0	.0	.0	.0	2.1	1.9	.0	35.1	1.2	.0	.0	59.7
W	.0	.0	3.9	.0	.0	.0	.0	3.9	.0	.0	26.5	1.5	.0	.0	68.1
NW	.0	10.3	1.3	.0	.0	.0	.0	11.5	5.1	.0	20.5	.0	.0	.0	62.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1	.0	.0	.0	.0	.0	.0	3.1	.0	.0	43.8	.0	.0	.0	53.1
TOT PCT	4.4	.7	3.0	.0	.0	.0	.0	8.1	1.6	.2	26.8	.7	.5	.0	62.1
TOT OBS:	433														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.1	.0	3.1	.0	.0	.0	.0	6.3	.8	.0	23.6	.8	.8	.0	67.7
06009	6.7	1.0	4.8	.0	.0	.0	.0	12.5	1.0	.0	26.9	.0	1.0	.0	58.7
12015	3.0	1.0	3.0	.0	.0	.0	.0	7.0	2.0	1.0	35.0	.0	.0	.0	55.0
18021	5.3	.9	.9	.0	.0	.0	.0	7.1	2.7	.0	23.9	1.8	.0	.0	64.6
TOT PCT	4.5	.7	2.9	.0	.0	.0	.0	8.1	1.6	.2	27.0	.7	.5	.0	61.9
TOT OBS:	444														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.5	3.4	5.6	.3	.0	.0		9.8	12.1	10.6	10.9	16.9	5.0	6.6	8.3	7.2	12.2	
NE	1.4	8.0	8.4	1.6	.0	.0		19.4	12.0	19.3	22.7	23.7	22.5	18.7	17.6	14.4	15.2	
E	.1	5.9	2.4	.4	.0	.0		8.7	9.5	9.7	15.6	6.8	10.0	4.1	7.7	7.2	12.8	
SE	1.6	4.0	.9	.1	.0	.0		6.1	5.9	5.2	7.0	1.9	11.3	4.9	9.5	4.7	11.6	
S	1.0	5.8	1.1	.3	.0	.0		8.2	7.8	5.0	11.7	9.7	7.5	10.7	13.7	4.7	4.9	
SW	.9	9.1	12.2	.4	.0	.0		22.6	11.3	23.5	12.1	24.7	19.4	24.2	13.7	31.9	20.7	
W	1.2	7.1	4.1	.0	.0	.0		12.4	8.9	9.7	9.0	7.8	15.6	17.9	20.2	11.7	11.0	
NW	.6	2.5	1.8	.0	.0	.0		4.9	9.2	5.2	4.7	4.5	3.8	6.3	4.8	3.6	6.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	7.9							7.9	.0	11.9	6.3	3.9	5.0	6.6	2.4	14.4	4.9	
TOT OBS	33	250	196	17	0	0	546		9.4	101	84	77	40	91	42	90	41	
TOT PCT	15.2	45.8	35.9	3.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	2.6	5.2	2.1	.0	.0		9.8	12.1	10.8	12.8	7.1	8.8	
NE	4.9	9.6	4.2	.6	.0		19.4	12.0	20.6	23.3	19.0	14.7	
E	4.1	2.9	1.6	.1	.0		8.7	9.5	12.0	7.9	5.3	9.0	
SE	1.2	1.5	.4	.0	.0		6.1	5.9	5.9	5.1	6.4	6.9	
S	3.6	4.3	.3	.0	.0		8.2	7.8	7.6	9.0	11.7	4.8	
SW	5.4	13.2	3.9	.0	.0		22.6	11.3	19.1	22.9	20.9	28.4	
W	4.6	6.8	1.0	.0	.0		12.4	8.9	9.4	10.5	18.6	11.5	
NW	1.5	3.2	.3	.0	.0		4.9	9.2	5.0	4.3	5.8	4.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	7.9						7.9	.0	9.7	4.3	5.3	11.5	
TOT OBS	212	255	75	4	0	546		9.4	165	117	133	131	
TOT PCT	38.8	46.7	13.7	.7	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1935-1971
(OVER-ALL) 1970-1971

JUNE

AREA 0028 SEA OF JAPAN N
42.5N 135.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	9.7	6.7	46.7	36.4	.6	.0	.0	8.8	100.0	165
06009	4.3	6.8	45.3	38.5	5.1	.0	.0	10.2	100.0	117
12015	5.3	9.8	47.4	33.1	4.5	.0	.0	9.8	100.0	123
18021	11.5	6.1	43.5	35.9	3.1	.0	.0	9.2	100.0	131
TOT	43	40	250	196	17	0	0	9.4		546
PCT	7.9	7.3	45.8	35.9	3.1	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.9	.6	3.2	6.4		6.3
NE	1.9	1.5	3.3	13.9		6.7
E	.9	.3	1.6	3.8		6.4
SE	.3	.1	.7	1.0		6.0
S	.9	.3	1.8	4.0		6.3
SW	7.5	4.1	3.8	12.7		4.9
W	4.1	1.9	1.9	4.3		4.3
NW	.6	.8	1.0	1.2		3.1
VAR	.0	.0	.0	.0		.0
CALM	2.7	.7	.7	4.7		3.1
TOT OBS	62	30	32	153	297	5.6
TOT PCT	20.9	10.1	17.5	51.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.4	.0	.0	.0	1.3	3.6	.6	1.3	.0	.0	3.8	
NE	3.9	.0	.3	.0	3.3	5.4	1.6	1.3	.7	.1	3.5	
E	.9	.0	.0	.0	1.8	1.3	.8	.0	.0	.3	1.4	
SE	.5	.0	.0	.0	.0	.4	.1	.3	.0	.0	.8	
S	1.2	.0	.9	.3	.3	1.9	.8	.0	.3	.0	1.2	
SW	8.6	.0	.1	.1	1.7	2.7	.8	.0	.3	.0	13.8	
W	2.9	.0	.0	.3	.0	1.5	.0	.0	.0	.3	6.8	
NW	.5	.0	.0	.3	1.0	.3	.0	.0	.0	.0	1.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.4	.0	.0	.7	.3	.7	.3	.0	.0	.0	3.4	
TOT OBS	69	0	4	5	29	53	15	9	4	2	107	297
TOT PCT	23.2	.0	1.3	1.7	9.8	17.6	5.1	3.0	1.3	.7	36.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.4	1.4	1.7	1.7	1.7	2.0	2.0	2.0
= OR >5000	4.1	4.1	4.8	4.8	4.8	5.1	5.1	5.1
= OR >3500	7.1	8.5	9.2	9.5	9.5	9.9	10.2	10.2
= OR >2000	12.9	22.4	24.8	25.5	25.9	26.2	26.5	26.5
= OR >1000	14.3	28.2	33.3	34.7	35.0	36.1	36.4	36.4
= OR >600	14.6	29.3	34.7	36.1	36.4	37.4	38.1	38.1
= OR >300	14.6	29.6	35.0	37.4	37.8	38.8	39.5	39.5
= OR >150	14.6	29.6	35.0	37.4	37.8	38.8	39.5	39.5
= OR >0	14.6	29.6	36.4	39.8	40.8	48.3	60.2	62.9
TOTAL	43	87	107	117	120	142	177	185

TOTAL NUMBER OF OBS: 294

PCT FREQ NM <5/8: 37.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
20.9	2.5	7.1	1.2	3.7	3.4	6.5	5.8	27.7	21.8	329

JUNE

PERIOD: (PRIMARY) 1935-1971
(OVER-ALL) 1870-1971AREA 0028 SEA OF JAPAN N
42.5N 135.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.2	.2	.2	.0	.0	.2	.0	.0	.0	.9	
	NO PCP	.8	3.0	1.4	.5	1.7	7.0	1.3	.2	.0	3.0	18.9	
	TOT %	.8	3.3	1.6	.7	1.7	7.0	1.6	.2	.0	3.0	19.9	
1/2<1	PCP	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.2	.2	.4	.0	.0	.2	.2	.0	.0	.0	1.2	
	TOT %	.2	.2	.7	.1	.0	.2	.2	.0	.0	.0	1.6	
1<2	PCP	.0	.1	.2	.1	.2	.1	.2	.5	.0	.0	1.4	
	NO PCP	.2	.5	.2	.2	.5	.6	.2	.0	.0	.2	2.8	
	TOT %	.2	.6	.5	.4	.7	.7	.5	.5	.0	.2	4.2	
2<5	PCP	.6	.7	.0	.2	.2	.0	.0	.1	.0	.2	2.1	
	NO PCP	.0	1.2	.8	.3	.4	1.1	.7	.5	.0	.2	5.1	
	TOT %	.6	1.9	.8	.5	.6	1.1	.7	.5	.0	.5	7.2	
5<10	PCP	.2	1.2	.2	.2	.5	.2	.0	.0	.0	.0	2.6	
	NO PCP	3.2	5.7	1.9	.7	2.4	5.0	3.0	1.1	.0	1.2	24.1	
	TOT %	3.4	6.8	2.2	.9	2.9	5.2	3.0	1.1	.0	1.2	26.6	
10+	PCP	.0	.5	.0	.0	.0	.2	.0	.0	.0	.0	.7	
	NO PCP	5.6	7.2	3.4	1.6	1.9	9.6	5.7	2.0	.0	2.6	39.7	
	TOT %	5.6	7.7	3.4	1.6	1.9	9.9	5.7	2.0	.0	2.6	40.4	
TOT OBS													
TOT PCT													
		10.8	20.5	9.2	4.2	7.7	24.0	11.7	4.3	.0	7.5	100.0	428

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.4	.3	.1	.0	.2	.2	.3	.3	.0	2.9	4.7	
	4-10	.4	1.5	1.0	.6	1.1	2.7	.7	.1	.0		8.2	
	11-21	.2	1.4	.4	.0	.0	4.1	1.1	.2	.0		7.4	
	22+	.0	.0	.0	.0	.2	.1	.0	.0	.0		.2	
	TOT %	1.0	3.3	1.5	.6	1.5	7.1	2.1	.6	.0	2.9	20.8	
1/2<1	0-3	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.4	
	4-10	.2	.1	.3	.3	.0	.0	.2	.0	.0		1.0	
	11-21	.0	.1	.3	.0	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.2	.6	.3	.0	.2	.2	.0	.0	.0	1.9	
1<2	0-3	.0	.0	.0	.1	.3	.1	.0	.0	.0	.2	.6	
	4-10	.1	.7	.5	.9	.2	.2	.4	.4	.0		3.5	
	11-21	.4	.3	.1	.0	.3	.4	.0	.0	.0		1.4	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	TOT %	.5	1.0	.7	1.1	.7	.6	.4	.4	.0	.2	5.8	
2<5	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.6	.8	
	4-10	.0	.6	.4	.5	.5	.5	.5	.4	.0		3.3	
	11-21	.6	.8	.5	.2	.0	.4	.2	.1	.0		2.7	
	22+	.2	.4	.0	.0	.0	.0	.0	.0	.0		.6	
	TOT %	.8	1.8	.8	.7	.5	1.1	.6	.5	.0	.6	7.4	
5<10	0-3	.0	.4	.0	.6	.5	.1	.4	.2	.0	1.2	3.5	
	4-10	1.2	2.3	1.4	.4	1.5	1.8	2.1	.6	.0		11.3	
	11-21	1.8	2.3	.3	.0	.6	3.1	1.0	.2	.0		9.3	
	22+	.0	1.1	.2	.0	.2	.2	.0	.0	.0		1.6	
	TOT %	3.0	6.0	1.9	1.0	2.8	5.2	3.5	1.0	.0	1.2	25.8	
10+	0-3	.0	.8	.0	.7	.1	.0	.5	.1	.0	2.7	4.9	
	4-10	1.9	3.0	2.2	.6	1.6	4.0	3.2	.6	.0		17.1	
	11-21	3.4	3.3	.7	.1	.3	4.7	2.1	1.5	.0		16.1	
	22+	.2	.1	.2	.0	.0	.0	.0	.0	.0		.4	
	TOT %	5.4	7.2	3.0	1.4	2.1	8.7	5.9	2.2	.0	2.7	38.6	
TOT OBS													
TOT PCT													
		11.0	19.5	8.7	5.2	7.6	22.9	12.7	4.7	.0	7.6	100.0	485

JUNE

PERIOD: (PRIMARY) 1935-1971
(OVER-ALL) 1870-1971AREA 0028 SEA OF JAPAN N
42.3N 135.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000 149	180 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00003	18.6	.0	.0	1.0	9.3	17.5	6.2	3.1	4.1	1.0	60.8	39.2	97
06009	20.0	.0	2.9	1.4	17.1	24.3	4.3	4.3	.0	1.4	75.7	24.3	70
12015	31.0	.0	1.4	2.8	7.0	18.3	2.8	1.4	.0	.0	64.8	35.2	71
18021	24.6	.0	1.4	1.4	5.8	10.1	5.8	2.9	.0	.0	52.2	47.8	69
TOT	71	0	4	5	30	54	15	9	4	2	194	113	207
PCT	23.1	.0	1.3	1.6	9.8	17.6	4.9	2.9	1.3	.7	63.2	36.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	19.0	2.1	4.2	4.2	21.8	48.6	142
06009	17.5	1.8	6.1	7.9	19.3	47.4	114
12015	25.2	2.5	8.4	6.7	30.3	26.9	119
18021	20.2	1.7	4.2	12.6	31.1	30.3	119
TOT	101	10	28	38	126	191	494
PCT	20.4	2.0	5.7	7.7	25.5	38.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <3/8 AND 5+	TOTAL OBS
00003	20.2	24.5	30.9	31.9	37.2	94
06009	17.6	22.1	32.4	45.6	22.1	68
12015	33.8	35.3	47.1	17.6	35.3	68
18021	26.6	31.3	42.2	15.6	42.2	64
TOT	71	82	110	83	101	294
PCT	24.1	27.9	37.4	28.2	34.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	1.1	1.1	2.3	.0	4	4.6
60/64	.0	.0	.0	.0	.0	.0	1.1	9.2	9	10.3
55/59	.0	.0	.0	.0	.0	1.1	5.7	31.0	33	37.9
50/54	.0	.0	.0	.0	.0	1.1	21.8	14.9	33	37.9
45/49	.0	.0	.0	.0	.0	.0	1.1	5.7	6	6.9
40/44	.0	.0	.0	.0	.0	.0	.0	2.3	2	2.3
TOTAL	0	0	0	0	1	3	28	55	87	100.0
PCT	.0	.0	.0	.0	1.1	3.4	32.2	63.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	1.1	.0	.0	2.0	1.4	.0	.0	.0	.0
60/64	.0	.0	.0	.0	.9	3.7	1.1	.0	.0	4.6
55/59	.0	2.8	5.2	2.6	2.0	14.7	9.8	.0	.0	1.1
50/54	12.1	8.9	4.9	.6	3.4	5.2	2.9	.0	.0	.0
45/49	1.1	4.9	.9	.0	.0	.0	.0	.0	.0	.0
40/44	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0
TOTAL	13.2	18.7	10.9	3.2	8.3	26.1	13.8	.0	.0	5.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	72	66	55	48	44	42	55.6	167
06009	68	67	66	55	48	43	43	56.0	117
12015	71	69	64	54	49	41	41	54.1	131
18021	70	69	63	54	44	41	39	53.2	131
TOT	73	70	65	54	49	41	39	54.7	546

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	4.3	36.4	59.1	91	22
06009	.0	.0	4.2	8.3	41.7	45.8	88	24
12015	.0	.0	.0	.0	21.7	78.3	93	23
18021	.0	.0	.0	.0	30.0	70.0	93	20
TOT	0	0	1	3	29	56	91	89

JUNE

PERIOD: (PRIMARY) 1935-1971
(OVER-ALL) 1870-1971

TABLE 17

AREA 0028 SEA OF JAPAN N
42.5N 139.4EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.7	.0	.5	5	.2	1.0
14/16	.0	.0	.0	.0	.0	.0	1.4	1.0	.0	10	1.0	1.4
11/13	.0	.0	.0	.0	.2	1.4	1.0	.2	.0	12	.5	2.4
9/10	.0	.0	.0	.0	1.0	.5	.2	.5	.2	10	.5	1.9
7/8	.0	.0	.0	.7	1.0	1.2	1.0	.5	.5	20	1.7	3.1
6	.0	.0	.0	.5	1.2	.0	.2	.0	.0	8	.2	1.7
5	.0	.0	.7	1.4	.2	1.9	1.4	.5	.0	26	.7	5.5
4	.0	.0	.2	2.4	3.3	1.2	1.7	.2	.0	38	1.2	7.9
3	.0	.0	.5	1.0	2.2	1.2	.0	.0	.2	21	1.2	3.8
2	.0	.0	1.4	2.6	3.8	3.3	1.4	.2	.0	54	3.6	9.3
1	.0	.0	.7	.7	1.0	1.4	.0	.2	.0	17	2.4	1.7
0	.0	.2	3.1	3.6	3.1	3.6	1.4	.0	.0	63	5.0	10.0
-1	.0	.2	1.2	1.9	1.2	1.9	.0	.0	.0	27	2.2	4.3
-2	.0	.0	3.6	3.1	4.3	1.2	.5	.0	.0	53	3.1	9.6
-3	.0	.0	.5	1.0	.5	.7	.0	.0	.0	11	.0	2.6
-4	.2	.5	1.2	.7	1.9	.7	.0	.0	.0	22	1.9	3.3
-5	.0	.2	.2	.5	.5	.2	.0	.0	.0	7	.2	1.4
-7/-8	.0	.2	1.0	1.0	.0	.2	.0	.0	.0	10	1.0	1.4
-9/-10	.0	.2	.2	.0	.0	.0	.0	.0	.0	2	.2	.2
-11/-13	.0	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	1	7	62	88	106	87	46	15	6	418	112	306
PCT	.2	1.7	14.8	21.1	25.4	20.8	11.0	3.6	1.4	100.0	26.8	73.2

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.5	1.3	.0	.0	.0	.0	1.7	.5	3.5	.9	.0	.0	.0	4.8
1-2	.0	2.2	.8	.0	.0	.0	3.0	.5	1.8	4.0	.0	.0	.0	6.3
3-4	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	5.3	.5	.0	.0	5.8
5-6	.0	.0	2.2	.0	.0	.0	2.2	.0	.0	2.4	.0	.0	.0	2.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.5	.0	.0	1.4
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.5	.0	.7	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.5	4.7	.3	.0	.0	9.0	.9	5.8	13.6	2.5	.0	.0	22.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	1.6	.0	.0	.0	.0	1.6	.5	.1	.0	.0	.0	.0	.6
1-2	.0	1.4	2.0	.0	.0	.0	3.3	.0	1.5	.1	.0	.0	.0	1.6
3-4	.0	.0	.7	.0	.0	.0	.7	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	2.6	.3	.0	.0	6.0	.5	1.6	.7	.0	.0	.0	2.8

PERIOD: (OVER-ALL) 1963-1971

JUNE

AREA 0028 SEA OF JAPAN N
42.5N 135.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	2.1	.0	.0	.0	.0	2.9	.1	2.8	.5	.0	.0	.0	3.3	
1-2	.0	1.6	.9	.0	.0	.0	2.5	.0	5.1	9.8	.0	.0	.0	14.9	
3-4	.0	1.2	.3	.0	.0	.0	1.5	.0	1.6	8.6	.0	.0	.0	10.3	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	4.8	1.3	.0	.0	.0	6.9	.1	9.4	20.3	.0	.0	.0	29.8	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	2.5	.5	.0	.0	.0	3.5	.0	.9	.0	.0	.0	.0	.9	
1-2	.0	1.6	2.4	.0	.0	.0	4.0	.0	.0	1.6	.0	.0	.0	1.6	
3-4	.0	.9	2.5	.0	.0	.0	3.5	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	5.1	5.4	.0	.0	.0	10.9	.0	.9	1.6	.0	.0	.0	2.5	90.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	12.0	14.7	1.8	.0	.0	.0	28.6	
1-2	.5	15.2	21.7	.0	.0	.0	37.3	
3-4	.0	3.7	19.4	.5	.0	.0	23.5	
5-6	.0	.0	6.5	.0	.0	.0	6.5	
7	.0	.0	.9	.5	.0	.0	1.4	
8-9	.0	.5	.0	1.4	.0	.0	1.8	
10-11	.0	.0	.0	.9	.0	.0	.9	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.4	34.1	50.2	3.2	.0	.0	100.0	217

PERIOD: (OVER-ALL) 1963-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.5	18.4	10.2	3.5	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	3
6-7	.4	3.5	4.3	1.6	1.2	3.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	5
8-9	.0	.4	.0	.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	10
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	12.5	18.0	8.2	2.7	2.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	115	2
TOTAL	42	103	59	21	13	12	3	0	2	0	0	0	0	0	0	0	0	0	0	295	3
PCT	16.5	40.4	23.1	8.2	5.1	4.7	1.2	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1971
(OVER-ALL) 1883-1971

JULY

AREA 0028 SEA OF JAPAN N
42.4N 135.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	2.8	1.9	7.4	.0	.0	.0	.0	12.1	2.8	.0	27.4	3.3	1.9	.0	52.6
NE	6.6	.0	10.7	.0	.0	.0	.0	17.3	6.3	.0	17.6	2.7	.0	.0	56.1
E	6.7	.0	11.8	.0	.0	.0	.0	18.5	2.1	.0	33.3	.0	.0	.0	46.2
SE	22.0	.0	5.9	.0	.0	.0	.0	26.0	6.3	.0	24.4	.0	3.9	.0	39.4
S	7.9	.0	4.5	.0	.0	.0	.0	12.4	.0	.0	40.7	.0	1.7	.0	45.2
SW	5.2	.0	1.7	.0	.0	.0	.0	7.0	.9	.0	39.2	.0	2.6	.0	50.3
W	.0	.0	4.6	.0	.0	.0	.0	4.6	.0	.0	19.1	2.3	.0	.0	74.0
NW	6.7	.0	.0	.0	.0	.0	.0	6.7	1.3	.0	22.7	.0	.0	.0	69.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.9	.0	.0	.0	74.1
TOT PCT	6.0	.2	5.6	.0	.0	.0	.0	11.8	2.4	.0	29.2	1.1	1.3	.0	54.3
TOT OBS:	466														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0603	7.9	.0	7.9	.0	.0	.0	.0	15.8	.7	.0	28.8	.7	.7	.0	53.2
0609	3.4	.0	4.3	.0	.0	.0	.0	7.8	3.4	.0	32.8	1.7	.9	.0	53.4
1215	4.1	.0	3.0	.0	.0	.0	.0	9.1	2.5	.0	27.3	.8	2.5	.0	57.9
1821	8.7	1.0	3.9	.0	.0	.0	.0	13.6	3.9	.0	28.2	1.0	1.0	.0	52.4
TOT PCT	6.1	.2	5.4	.0	.0	.0	.0	11.7	2.5	.0	29.2	1.0	1.3	.0	54.3
TOT OBS:	479														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.9	4.9	3.9	1.3	.0	.0	10.6	11.5	14.5	6.9	6.8	13.8	11.8	12.5	8.0	11.4	
NE	1.0	5.7	8.9	1.9	.3	.0	17.2	13.4	16.2	13.2	30.9	14.9	19.2	14.6	14.5	5.7	
E	.9	4.4	4.1	.7	.0	.0	10.1	12.1	11.9	7.6	6.8	8.0	10.0	5.2	13.9	12.9	
SE	.3	4.1	1.5	.6	.0	.0	6.5	10.0	4.3	6.9	5.2	7.4	11.1	6.3	4.3	7.1	
S	.5	5.5	2.9	.3	.0	.0	9.2	9.8	7.1	14.1	12.0	13.3	6.1	7.3	6.5	10.0	
SW	2.1	12.3	12.9	.5	.0	.0	27.2	10.5	28.3	36.5	24.4	31.9	19.3	22.9	26.7	31.4	
W	.5	6.5	2.0	.0	.0	.0	9.1	8.6	8.1	8.2	6.5	10.6	9.2	18.8	6.3	11.4	
NW	.4	2.0	1.2	.0	.0	.0	3.6	8.7	2.9	2.6	1.2	.0	2.6	8.3	6.5	7.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	6.6						6.6	.0	6.7	3.9	6.2	.0	10.5	4.2	11.4	2.9	
TOT OBS	76	261	206	30	2	0	575	10.2	105	76	81	47	95	48	88	35	
TOT PCT	13.2	45.4	35.8	5.2	.3	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	3.8	4.5	2.2	.1	.0	10.6	11.5	11.3	9.4	12.1	8.9		
NE	3.0	9.2	3.9	1.1	.0	17.2	13.4	14.9	25.0	17.7	12.0		
E	1.9	5.3	2.6	.3	.0	10.1	12.1	10.1	7.2	8.4	15.0		
SE	2.4	3.3	.6	.2	.0	6.5	10.0	5.4	6.1	9.4	9.1		
S	2.5	8.0	.6	.1	.0	9.2	9.8	10.1	12.5	6.5	7.5		
SW	7.8	15.9	3.3	.2	.0	27.2	10.5	31.8	27.1	20.0	28.6		
W	3.1	5.4	.6	.0	.0	9.1	8.6	8.1	8.0	12.4	7.7		
NW	1.5	2.0	.4	.0	.0	3.6	8.7	2.8	.8	4.5	6.7		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	6.6					6.6	.0	5.5	3.9	8.4	8.9		
TOT OBS	188	296	79	12	0	575	10.2	181	128	143	123		
TOT PCT	32.7	51.5	13.7	2.1	.0		100.0	100.0	100.0	100.0	100.0		

JULY

PERIOD: (PRIMARY) 1934-1971
(OVER-ALL) 1983-1971AREA 0028 SEA OF JAPAN N
42.4N 135.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	5.5	8.8	44.2	36.5	5.0	.0	.0	10.2	100.0	181
0600Z	3.9	3.9	47.7	37.5	6.3	.8	.0	10.9	100.0	128
1201Z	8.4	7.7	44.8	32.9	5.6	.7	.0	9.9	100.0	143
1802Z	8.9	4.9	43.5	36.6	4.1	.0	.0	10.0	100.0	123
TOT	38	38	261	206	30	2	0	10.2		575
PCT	6.6	6.6	45.4	35.8	5.2	.3	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.3	.3	2.6	9.6		7.4
NE	.3	1.0	5.2	13.3		7.2
E	.3	.0	1.2	9.6		7.6
SE	.0	.7	1.6	4.0		7.2
S	.3	.9	2.1	5.6		6.7
SW	3.0	1.9	2.3	14.9		6.4
W	2.4	1.2	1.2	3.1		5.0
NW	.3	.3	1.8	1.6		6.4
VAR	.0	.0	.0	.0		.0
CALM	2.4	.0	1.0	3.4		5.4
TOT OBS	28	19	56	193	296	6.7
TOT PCT	9.5	6.4	18.9	65.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	3.1	.0	.8	.0	1.5	3.9	1.9	.0	.3	.0	1.4	
NE	3.5	.0	.5	.4	4.6	5.5	2.4	.3	.3	.3	2.0	
E	3.5	.0	.0	.6	1.9	1.7	1.9	.0	.7	.0	.9	
SE	1.4	.0	.3	.2	.6	1.7	.5	.0	.0	.1	1.5	
S	1.9	.0	.0	1.8	1.1	.3	.7	.0	.0	.5	2.6	
SW	6.7	.0	.3	1.1	3.1	4.1	.7	.0	.1	.1	6.0	
W	.8	.0	.0	.3	.3	1.6	.7	.0	.3	.0	3.8	
NW	.8	.0	.0	.0	.4	.4	.0	.0	.8	.3	1.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.0	.0	.7	.0	.3	.3	.7	.0	.3	.0	2.4	
TOT OBS	70	0	8	13	41	58	28	1	8	4	65	296
TOT PCT	23.6	.0	2.7	4.4	13.9	19.6	9.5	.3	2.7	1.4	22.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >6500	2.3	3.3	3.7	3.7	3.7	3.7	3.7	3.7
>OR >5000	2.7	3.7	4.0	4.0	4.0	4.0	4.0	4.0
>OR >3500	8.0	13.0	13.7	14.0	14.0	14.0	14.0	14.0
>OR >2000	15.7	28.4	32.4	32.8	33.4	33.4	33.4	33.4
>OR >1000	18.7	36.5	45.2	45.8	46.5	46.5	46.8	46.8
>OR >600	19.1	37.5	47.8	49.2	50.2	50.2	50.8	50.8
>OR >300	19.4	38.1	50.5	51.8	52.8	52.8	53.5	53.5
>OR >150	19.4	38.1	50.5	51.8	52.8	52.8	53.5	53.5
>OR >0	19.4	38.8	51.5	53.5	55.2	60.5	73.9	77.6
TOTAL	58	116	154	160	165	181	221	232

TOTAL NUMBER OF OBS: 299

PCT FREQ NH <5/8: 22.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.1	3.0	6.4	2.1	3.3	1.5	4.5	9.1	41.5	22.4	330

PERIOD: (PRIMARY) 1934-1971
(OVER-ALL) 1889-1971

JULY

AREA 0028 SEA OF JAPAN N
42.4N 135.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.3	.2	.1	.2	.0	.0	.0	.0	.0	.7	
	NO PCP	2.4	3.4	2.6	.8	2.8	8.0	1.8	.9	.0	1.3	24.1	
	TOT %	2.4	3.7	2.8	.9	3.0	8.0	1.8	.9	.0	1.3	24.7	
1/2<1	PCP	.2	.5	.6	.4	.2	.4	.0	.1	.0	.0	2.4	
	NO PCP	.2	.0	.1	.1	.1	.1	.0	.0	.0	.0	.7	
	TOT %	.4	.5	.7	.5	.3	.5	.0	.1	.0	.0	3.1	
1<2	PCP	.0	.0	.3	.3	.4	.4	.0	.2	.0	.0	1.8	
	NO PCP	.4	.1	.2	.2	.0	.2	.0	.0	.0	.0	1.1	
	TOT %	.4	.1	.5	.5	.4	.7	.0	.2	.0	.0	2.8	
2<5	PCP	.2	.6	.7	.7	.2	.4	.0	.0	.0	.0	2.8	
	NO PCP	1.5	2.5	.7	1.0	.7	1.4	.2	.1	.0	.9	9.0	
	TOT %	1.8	3.1	1.4	1.7	.9	1.8	.2	.1	.0	.9	11.8	
5<10	PCP	1.0	1.6	.2	.3	.2	.4	.0	.0	.0	.0	4.2	
	NO PCP	1.9	3.1	1.6	2.0	2.1	4.5	3.8	.8	.0	1.8	21.4	
	TOT %	3.0	4.6	1.8	2.2	2.3	4.9	4.2	.8	.0	1.8	25.6	
10+	PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	3.9	6.1	3.1	.8	2.2	8.4	3.2	2.0	.0	2.0	31.7	
	TOT %	3.9	6.3	3.1	.8	2.2	8.4	3.2	2.0	.0	2.0	31.9	
TOT OBS													457
TOT PCT		11.8	18.3	10.2	6.7	9.1	24.3	9.5	4.1	.0	5.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.4	.4	.2	.2	.1	1.0	.3	.2	.0	1.8	4.6	
	4-10	1.4	1.7	1.1	.3	1.5	3.3	1.5	.9	.0		11.2	
	11-21	.4	1.1	1.2	.0	.8	3.7	.2	.3	.0		7.4	
	22+	.2	.5	.2	.3	.3	.0	.0	.0	.0		1.4	
	TOT %	2.4	3.6	2.6	.8	2.7	8.0	2.0	1.0	.0	1.8	24.7	
1/2<1	0-3	.0	.1	.2	.0	.0	.2	.0	.0	.0	.0	.4	
	4-10	.0	.0	.5	.3	.0	.0	.0	.0	.0	.0	.8	
	11-21	.2	.2	.0	.2	.3	.5	.0	.1	.0	.0	1.4	
	22+	.2	.2	.0	.0	.0	.2	.0	.0	.0	.0	.6	
	TOT %	.4	.5	.7	.5	.3	.9	.0	.1	.0	.0	3.2	
1<2	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	4-10	.2	.1	.4	.0	.4	.2	.0	.0	.0	.0	1.2	
	11-21	.2	.0	.4	.6	.1	.5	.0	.2	.0	.0	2.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.1	.8	.6	.5	.9	.0	.2	.0	.0	3.4	
2<5	0-3	.0	.0	.0	.0	.3	.1	.0	.0	.0	1.0	1.4	
	4-10	.4	.7	.3	1.4	.8	1.2	.3	.3	.0	.0	5.2	
	11-21	1.3	1.4	.6	.2	.0	1.0	.4	.1	.0	.0	4.8	
	22+	.0	.8	.4	.2	.0	.0	.0	.0	.0	.0	1.4	
	TOT %	1.6	2.9	1.3	1.8	1.1	2.3	.7	.3	.0	1.0	12.9	
5<10	0-3	.0	.1	.1	.0	.0	.2	.2	.0	.0	1.6	2.2	
	4-10	1.1	1.0	1.0	1.6	2.0	2.2	2.9	.5	.0	.0	12.2	
	11-21	1.2	2.7	.5	.5	.3	3.0	.8	.3	.0	.0	9.0	
	22+	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	2.7	4.3	1.6	2.1	2.2	5.4	3.9	.8	.0	1.6	24.5	
10+	0-3	.2	.4	.3	.1	.0	.4	.0	.2	.0	1.8	3.4	
	4-10	2.0	2.2	1.3	.5	.9	4.3	2.3	1.0	.0	.0	14.3	
	11-21	.8	3.2	1.4	.1	1.4	4.1	1.0	.6	.0	.0	12.4	
	22+	.6	.0	.0	.2	.0	.2	.0	.0	.0	.0	1.0	
	TOT %	3.6	5.8	3.0	.9	2.3	9.0	3.3	1.8	.0	1.8	31.3	
TOT OBS													498
TOT PCT		11.0	17.0	9.8	6.6	9.1	28.5	9.8	4.1	.0	6.2	100.0	

JULY

PERIOD: (PRIMARY) 1934-1971
(OVER-ALL) 1889-1971AREA 0028 SEA OF JAPAN N
42.4N 139.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOURL (GMT)	000 149	180 289	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00003	19.6	.0	3.1	6.3	14.6	21.9	16.7	.0	4.2	1.0	83.3	16.7	96
06009	27.8	.0	2.5	1.3	16.3	19.2	10.1	.0	.0	2.5	79.9	24.1	79
12015	28.2	.0	2.6	2.6	10.3	21.8	9.1	1.3	1.3	.0	75.1	26.9	78
18021	26.8	.0	1.8	7.1	12.3	16.1	5.4	.0	5.4	1.8	76.8	23.2	96
TOT	74	0	8	13	42	59	31	1	8	4	240	69	309
PCT	23.9	.0	2.6	4.2	13.6	19.1	10.0	.3	2.6	1.3	77.7	22.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	21.8	9.4	2.7	10.2	23.8	36.1	147
06009	29.3	2.4	4.1	11.4	19.3	33.3	123
12015	26.5	1.5	2.3	8.3	27.3	34.1	132
18021	22.0	2.8	5.3	22.9	26.6	20.2	109
TOT	127	16	18	65	124	161	511
PCT	24.9	3.1	3.3	12.7	24.3	31.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<180 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <3/8 AND 5+	TOTAL OBS
00003	14.8	22.7	38.6	48.9	12.5	88
06009	28.2	35.9	44.9	53.3	21.8	78
12015	28.2	30.8	39.7	53.3	26.9	78
18021	27.3	32.7	52.7	55.5	21.8	55
TOT	72	90	129	109	61	299
PCT	24.1	30.1	43.1	36.5	20.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.0	.8	.0	1	.8
70/74	.0	.0	.0	.0	.0	.0	1.6	9.8	14	11.5
65/69	.0	.0	.0	.0	.0	2.3	11.3	16.4	37	30.3
60/64	.0	.0	.0	.0	.0	4.1	6.6	24.6	43	35.2
55/59	.0	.0	.0	.0	.0	.8	4.9	15.6	26	21.3
50/54	.0	.0	.0	.0	.0	.0	.0	.8	1	.8
TOTAL	0	0	0	0	9	31	82	122	122	100.0
PCT	.0	.0	.0	.0	.0	7.4	25.4	67.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0
70/74	.0	.0	.4	3.3	5.5	2.3	.0	.0	.0	.0
65/69	.6	2.0	2.7	1.2	4.9	8.6	8.4	1.8	.0	.0
60/64	5.3	3.3	1.6	1.8	2.0	12.3	3.9	3.7	.0	.8
55/59	3.1	9.0	3.5	1.6	.8	1.0	1.4	.0	.0	.8
50/54	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0
TOT	9.2	14.3	8.2	8.8	13.3	25.0	13.7	5.5	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	76	72	63	39	48	46	62.9	175
06009	79	77	73	64	34	48	46	63.7	131
12015	74	73	70	61	33	48	46	61.0	146
18021	72	71	70	60	32	30	30	60.2	123
TOT	79	75	72	62	34	48	46	62.0	575

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	5.1	28.2	66.7	91	39
06009	.0	.0	.0	13.2	21.2	63.6	91	33
12015	.0	.0	.0	.0	28.0	72.0	92	25
18021	.0	.0	.0	8.0	24.0	68.0	92	25
TOT	0	0	0	9	31	82	91	122

JULY

PERIOD: (PRIMARY) 1934-1971
(OVER-ALL) 1883-1971

TABLE 17

AREA 0028 SEA OF JAPAN N
42.4N 135.6EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.9	.9	.7	.0	.0	11	.7	1.7
9/10	.0	.0	.0	.0	1.1	.0	.0	.2	.4	8	.0	1.7
7/8	.0	.0	.0	.4	.2	1.1	.4	.2	.0	11	1.1	1.3
6	.0	.0	.0	.0	.4	.2	.0	.2	.0	4	.2	.7
5	.0	.0	.0	1.3	2.6	2.0	.2	.0	.0	28	2.2	3.9
4	.0	.2	.7	.9	3.5	3.3	.7	.2	.2	44	2.8	6.8
3	.0	.0	.0	.7	1.7	1.3	.4	.7	.0	22	1.3	3.5
2	.4	.2	1.5	2.4	3.5	6.1	2.4	.4	.0	78	5.7	11.1
1	.0	.0	.2	2.0	2.0	1.5	.4	.2	.0	29	1.3	5.0
0	.0	.0	2.0	5.4	6.5	1.7	1.3	.2	.0	79	6.3	10.9
-1	.0	.0	.4	3.1	2.0	.0	.0	.0	.0	25	1.3	4.1
-2	.2	.0	2.0	3.7	4.4	.7	.2	.0	.0	51	2.6	8.5
-3	.0	.0	.9	1.5	.7	.2	.0	.0	.0	15	.4	2.8
-4	.0	.7	.9	.7	1.5	.0	.0	.0	.0	17	.9	2.8
-5	.0	.4	.7	.7	.2	.0	.0	.0	.0	9	.9	1.1
-6	.0	.0	.2	.0	.0	.0	.0	.0	.0	2	.2	.2
-7/-8	.2	.7	1.7	.2	.2	.2	.0	.0	.0	15	.7	2.6
-9/-10	.2	.4	.7	.0	.0	.0	.0	.0	.0	6	.2	1.1
-11/-13	.4	.4	.2	.0	.0	.0	.0	.0	.0	5	.7	.4
TOTAL	7		55		144		31		9	459	135	324
PCT	1.5	3.1	12.0	23.1	31.4	19.2	6.8	2.4	.7	100.0	29.4	70.6

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.0	.0	.0	.0	2.3	.9	3.3	.8	.0	.0	.0	5.0
1-2	.4	1.6	2.3	.0	.0	.0	4.3	.0	2.2	5.2	.0	.0	.0	7.4
3-4	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	3.6	.4	.0	.0	4.0
5-6	.0	.0	1.4	.4	.0	.0	1.8	.0	.0	1.9	.4	.0	.0	2.3
7	.0	.0	.3	1.6	.0	.0	1.9	.0	.0	.2	.5	.0	.0	.7
8-9	.0	.0	.0	.6	.0	.0	.6	.0	.0	.8	1.0	.0	.0	1.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.9	5.7	2.6	.0	.0	12.6	.9	5.5	12.5	2.7	.8	.0	22.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.1	.0	.0	.0	.0	1.8	.0	1.9	.4	.0	.0	.0	2.3
1-2	.4	1.4	2.2	.0	.0	.0	4.0	.0	1.9	.1	.0	.0	.0	2.0
3-4	.0	1.2	1.1	.0	.0	.0	2.3	.0	.0	.1	.4	.0	.0	.5
5-6	.0	.0	2.5	.4	.0	.0	2.9	.0	.0	.5	.5	.0	.0	1.0
7	.0	.0	.3	.3	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	3.7	6.1	1.1	.0	.0	12.0	.0	3.8	1.1	.9	.0	.0	5.8

PERIOD: (OVER-ALL) 1963-1971

JULY

AREA 0028 S2A OF JAPAN N
42.4N 139.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	1.4	.3	.0	.0	.0	2.1	.4	1.8	.1	.0	.0	.0	2.3
1-2	.0	3.1	1.0	.0	.0	.0	4.1	.0	3.6	6.7	.0	.0	.0	10.3
3-4	.0	.4	.7	.0	.0	.0	1.1	.0	.4	3.6	.0	.0	.0	6.0
5-6	.0	.0	.0	.3	.0	.0	.3	.0	.4	2.0	.0	.0	.3	2.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.9	2.0	.3	.0	.0	7.6	.4	6.2	14.4	.0	.0	.0	21.0

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	2.2	.4	.0	.0	.0	2.6	.4	.4	.0	.0	.0	.0	.8	
1-2	.0	1.8	.7	.0	.0	.0	2.5	.0	1.2	.6	.0	.0	.0	1.8	
3-4	.0	.0	.4	.0	.0	.0	.4	.0	.4	.4	.0	.0	.0	.8	
5-6	.0	.4	.0	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.4	1.5	.0	.0	.0	5.9	.4	2.0	1.1	.0	.0	.0	3.5	90.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.0	14.4	2.0	.0	.0	.0	28.4	
1-2	.8	16.8	18.8	.0	.0	.0	36.4	
3-4	.0	2.4	13.6	.8	.0	.0	16.8	
5-6	.0	.8	8.4	2.0	.0	.0	11.2	
7	.0	.0	.8	2.4	.0	.0	3.2	
8-9	.0	.0	.8	1.6	.0	.0	2.4	
10-11	.0	.0	.0	.0	.4	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.8	.4	.0	1.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.8	34.4	44.4	7.6	.8	.0	100.0	250

PERIOD: (OVER-ALL) 1952-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.2	16.6	13.1	7.6	1.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	125	3
6-7	.3	.0	2.4	1.7	1.7	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	5
8-9	.0	.0	.3	.7	1.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
10-11	.0	.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	13
INDEX	11.1	18.3	7.3	3.3	2.4	2.1	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	131	3
TOTAL	45	101	68	40	19	10	1	2	3	0	0	0	0	0	0	0	0	0	0	289	3
PCT	19.6	34.9	23.5	13.8	6.6	3.5	.3	.7	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1971
(OVER-ALL) 1870-1971

AUGUST

AREA 0028 SEA OF JAPAN N
42.4N 135.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	4.5	.0	.0	.0	.0	.0	.0	4.5	.0	.0	6.1	.0	.0	.0	89.4
NE	8.6	1.0	2.9	.0	.0	.0	.0	12.4	2.9	.0	19.3	1.9	1.0	.0	66.5
E	11.1	.0	4.9	.0	.0	.0	.0	18.0	1.8	.0	12.0	1.8	.0	.0	68.4
SE	6.8	.0	2.6	.0	.0	.0	.0	9.4	2.1	.0	4.2	.0	.0	.0	84.4
S	1.8	.0	1.8	.0	.0	.0	.0	3.6	1.8	1.4	25.5	1.8	.0	.0	65.9
SW	1.0	.0	8.1	.0	.0	.0	.0	7.1	.3	.3	32.7	1.0	2.0	.0	56.7
W	2.0	.0	.0	.0	.0	.0	.0	2.0	1.5	.0	14.1	.0	.0	.0	82.4
NW	.0	.0	4.0	.0	.0	.0	.0	4.0	4.0	4.0	.0	.0	.0	.0	87.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8	.0	11.5	.0	.0	.0	.0	15.4	3.8	.0	30.8	.0	.0	.0	50.0
TOT PCT	4.8	.2	3.6	.0	.0	.0	.0	8.7	1.8	.4	17.7	1.0	.6	.0	69.8
TOT OBS:	496														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	4.7	.8	3.1	.0	.0	.0	.0	8.6	1.6	.0	21.1	.0	.8	.0	68.0
06009	4.8	.0	1.6	.0	.0	.0	.0	6.4	3.2	.0	14.4	1.6	.0	.0	74.4
12015	5.3	.0	3.8	.0	.0	.0	.0	9.1	.8	.8	16.7	.8	2.3	.0	69.7
18021	4.6	.0	5.4	.0	.0	.0	.0	10.0	3.8	.6	19.2	2.3	.0	.0	63.8
TOT PCT	4.9	.2	3.5	.0	.0	.0	.0	8.5	2.3	.4	17.9	1.2	.8	.0	68.9
TOT OBS:	515														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	4.5	1.5	.2	.1	.0		7.2	8.9		6.8	12.3	3.2	8.9	4.8	6.9	6.5	9.8
NE	1.5	6.0	7.8	4.5	.9	.0		20.6	15.7		27.4	21.4	26.6	21.0	18.6	10.0	21.0	14.7
E	.1	6.8	3.2	1.1	.3	.0		11.5	12.0		12.8	10.5	13.5	6.5	10.4	10.0	16.1	9.8
SE	1.5	3.2	4.2	.1	.0	.0		9.0	9.9		4.2	9.9	9.0	14.5	7.7	13.8	5.9	10.8
S	1.7	5.9	2.8	.6	.0	.0		11.0	9.1		8.3	10.2	13.5	11.3	13.0	11.9	6.5	15.7
SW	1.7	11.9	6.4	.5	.0	.0		20.5	9.8		19.3	19.9	25.3	19.0	23.9	21.5	18.5	14.2
W	1.6	5.4	2.2	.3	.0	.0		9.5	8.4		7.4	4.8	3.2	10.9	11.7	11.2	14.8	12.3
NW	1.5	2.2	.8	.2	.0	.0		4.6	7.5		4.2	6.0	4.5	6.5	.3	10.0	1.1	8.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.1							6.1	.0		9.5	4.8	1.3	1.6	9.6	4.6	9.7	3.9
TOT OBS	100	280	176	46	8	0	610		10.3		84	83	78	62	94	65	93	51
TOT PCT	16.4	45.9	28.9	7.5	1.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	03	06	12	18
N	3.8	2.2	1.1	.1	.0		7.2	8.9		9.6	5.7	5.7	7.6	
NE	4.5	6.6	7.5	1.6	.3		20.6	15.7		24.4	24.1	15.1	18.8	
E	3.5	5.9	1.2	.9	.0		11.5	12.0		11.7	10.4	10.2	13.9	
SE	3.1	5.2	.8	.0	.0		9.0	9.9		7.0	11.4	10.2	7.6	
S	4.8	4.4	1.8	.0	.0		11.0	9.1		9.3	12.5	12.6	9.7	
SW	6.7	11.0	2.8	.0	.0		20.5	9.8		19.6	22.5	23.0	17.0	
W	4.8	3.6	1.1	.0	.0		9.5	8.4		6.1	6.6	11.5	13.9	
NW	3.3	.5	.7	.2	.0		4.6	7.5		3.1	5.4	4.2	3.8	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	6.1						6.1	.0		7.2	1.4	7.5	7.6	
TOT OBS	247	240	104	17	2	610		10.3		167	140	139	144	
TOT PCT	40.5	39.3	17.0	2.8	.3		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1934-1971
(OVER-ALL) 1870-1971

AUGUST

AREA 0028 SEA OF JAPAN N
42.4N 133.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	7.2	9.0	45.5	28.7	8.4	1.2	.0	10.2	100.0	167
0600	1.4	7.9	48.6	31.4	9.3	1.4	.0	11.5	100.0	140
1200	7.5	12.6	41.5	29.6	7.5	1.3	.0	10.1	100.0	159
1800	7.6	11.8	48.6	25.7	4.9	1.4	.0	9.4	100.0	144
TOT	37	63	280	176	46	8	0	10.3		610
PCT	6.1	10.3	45.9	28.9	7.5	1.3	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.0	.4	1.3	1.6		4.7
NE	2.9	.4	3.6	20.1		6.9
E	1.1	.3	3.2	4.7		6.5
SE	2.8	1.2	1.8	3.2		4.8
S	2.5	.7	1.6	4.9		5.6
SW	4.8	2.1	2.8	12.6		5.7
W	2.2	.7	2.0	3.4		5.1
NW	.4	.0	.4	.7		5.1
VAR	.0	.0	.0	.0		.0
CALM	1.1	.4	.7	3.3		6.5
TOT OBS	56	17	49	159	281	5.9
TOT PCT	19.9	6.0	17.4	56.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

AND OCCURRENCE OF NH $\leq 5/8$ BY WIND DIRECTION												
000	150	300	600	1000	2000	3500	5000	6500	8000+	NH $\leq 5/8$	TOTAL	
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS	
.4	.0	.0	.0	.7	1.0	.5	.0	.0	.0	2.8		
4.7	.0	.0	1.1	4.0	7.6	3.9	.4	.4	.4	4.7		
1.6	.0	.0	.0	3.0	.3	.5	.4	.4	.7	2.4		
.5	.0	.0	.7	.8	.1	.0	.4	.4	1.1	5.1		
2.8	.0	.4	.4	.6	.3	1.2	.0	.0	.3	3.8		
7.3	.0	.0	.4	3.3	1.7	.9	.4	.4	.8	7.3		
1.2	.0	.0	.0	1.1	.9	.7	.0	.4	.0	4.1		
.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.8		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
2.5	.0	.4	.0	.7	2.1	.4	.0	.0	.0	1.4		
59	0	2	7	40	41	23	4	5	9	91		
21.0	.0	.7	2.5	14.2	14.6	8.2	1.4	1.8	3.2	32.4	100.0	281

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>8500	2.8	4.9	5.2	5.2	5.2	5.2	5.2	5.2
>5000	4.2	6.3	6.6	6.6	6.6	6.6	6.6	6.6
>3500	9.4	14.0	14.3	14.3	14.7	14.7	14.7	14.7
>2000	15.0	27.3	28.3	28.7	30.1	30.4	30.4	30.4
>1000	17.5	37.1	40.9	42.0	43.4	44.4	44.4	44.4
>800	17.8	37.8	43.4	44.4	45.8	46.9	46.9	46.9
>300	17.8	37.8	43.4	44.4	46.3	47.6	47.6	47.6
>150	17.8	37.8	43.4	44.4	46.5	47.6	47.6	47.6
>0	17.8	37.8	44.1	45.1	47.2	54.9	67.1	69.6
TOTAL	51	108	126	129	135	157	192	199

TOTAL NUMBER OF OBS: 286

PCT FREQ NM <5/8: 30.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.3	7.5	6.2	2.2	4.4	4.7	4.7	7.2	33.0	321

PERIOD: (PRIMARY) 1934-1971
(OVER-ALL) 1870-1971

AUGUST

AREA 0028 SEA OF JAPAN N
42.4N 139.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.4	.0	.0	.0	.2	.0	.2	.0	.0	.8	
	NO PCP	.2	2.7	.9	.3	2.0	5.9	1.4	.0	.0	1.4	14.8	
	TOT %	.2	3.1	.9	.3	2.0	6.1	1.4	.2	.0	1.4	15.6	
1/2<1	PCP	.0	.0	.2	.0	.3	.1	.0	.0	.0	.4	1.0	
	NO PCP	.2	.2	.0	.0	.2	.3	.0	.0	.0	.0	1.0	
	TOT %	.2	.2	.2	.0	.5	.6	.0	.0	.0	.4	2.0	
1<2	PCP	.1	.2	.1	.0	.0	.0	.2	.0	.0	.0	.6	
	NO PCP	.0	.1	.2	.0	.2	.7	.0	.0	.0	.2	.8	
	TOT %	.1	.3	.3	.0	.2	.7	.2	.0	.0	.2	1.4	
2<5	PCP	.2	.8	.2	.6	.0	.4	.0	.0	.0	.2	2.4	
	NO PCP	.0	1.5	.7	.1	.6	.9	.6	.0	.0	.4	4.7	
	TOT %	.2	2.3	.9	.7	.6	1.3	.6	.0	.0	.6	7.1	
5<10	PCP	.0	.8	.6	.1	.0	.6	.0	.0	.0	.2	2.2	
	NO PCP	1.6	5.0	3.2	3.5	4.2	2.9	2.2	.9	.0	.8	24.3	
	TOT %	1.6	5.8	3.8	3.5	4.2	3.5	2.2	.9	.0	1.0	26.6	
10+	PCP	.0	.4	.8	.3	.1	.1	.0	.0	.0	.0	1.6	
	NO PCP	4.4	9.1	4.3	5.0	3.7	8.3	5.5	3.9	.0	1.6	43.6	
	TOT %	4.4	9.5	5.0	5.2	3.8	8.4	5.5	3.9	.0	1.6	47.3	
TOT OBS													
TOT PCT													
		6.7	21.2	11.0	9.7	11.2	20.0	9.9	5.0	.0	5.3	100.0	493

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.2	.0	.2	.2	.0	.4	.0	.0	1.7	2.7	
	4-10	.3	.2	.6	.1	1.0	4.0	1.0	.2	.0	.0	7.4	
	11-21	.0	1.5	.2	.0	.4	1.7	.0	.0	.0	.0	3.8	
	22+	.0	1.1	.0	.0	.2	.0	.0	.0	.0	.0	1.3	
	TOT %	.3	3.0	.8	.3	1.9	5.7	1.8	.2	.0	1.7	15.2	
1/2<1	0-3	.0	.0	.0	.0	.1	.3	.0	.0	.0	.4	.8	
	4-10	.2	.0	.2	.2	.1	.2	.0	.0	.0	.0	1.0	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	22+	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.2	.2	.2	.4	.5	.0	.0	.0	.4	2.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.2	.1	.3	.0	.0	.0	.2	.0	.0	.0	.8	
	11-21	.1	.2	.1	.0	.2	.2	.0	.0	.0	.0	.8	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.3	.3	.5	.0	.2	.2	.2	.0	.0	.2	1.9	
2<5	0-3	.0	.4	.0	.0	.0	.0	.1	.0	.0	.6	1.1	
	4-10	.0	.2	.6	.2	.3	1.3	.0	.0	.0	.0	2.7	
	11-21	.2	1.0	.5	.6	.0	.4	.2	.0	.0	.0	2.9	
	22+	.0	.6	.0	.0	.3	.2	.2	.0	.0	.0	1.3	
	TOT %	.2	2.1	1.1	.8	.6	2.0	.5	.0	.0	.6	8.0	
5<10	0-3	.1	.0	.0	.6	.1	.6	.3	.3	.0	1.0	2.9	
	4-10	.9	1.4	1.8	1.3	2.1	1.0	1.2	.3	.0	.0	9.9	
	11-21	.8	2.0	1.0	1.4	1.7	1.8	.6	.3	.0	.0	9.5	
	22+	.1	2.3	.7	.0	.0	.0	.0	.0	.0	.0	3.2	
	TOT %	1.9	5.7	3.5	3.3	4.0	3.3	2.1	.9	.0	1.0	25.5	
10+	0-3	.4	.2	.1	.8	1.1	.8	.6	1.0	.0	1.9	6.9	
	4-10	3.4	4.6	3.4	1.6	1.8	4.3	3.2	1.9	.0	.0	24.2	
	11-21	.4	3.7	1.1	2.8	.5	2.7	1.3	.6	.0	.0	13.1	
	22+	.1	1.6	.5	.0	.2	.2	.2	.2	.0	.0	3.0	
	TOT %	4.3	10.0	5.1	5.2	3.6	8.0	5.3	3.8	.0	1.9	47.2	
TOT OBS													
TOT PCT													
		7.1	21.4	11.3	9.8	10.7	19.7	9.5	4.8	.0	5.7	100.0	523

AUGUST

PERIOD: (PRIMARY) 1934-1971
(OVER-ALL) 1870-1971AREA 0028 SEA OF JAPAN N
42.4N 139.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	25.0	.0	2.4	3.6	14.3	15.5	9.5	1.2	2.4	2.4	76.2	23.8	84
06009	13.2	.0	.0	.0	17.6	16.2	11.8	2.9	.0	2.9	64.7	35.3	68
12015	17.5	.0	.0	2.6	13.0	14.3	6.5	.0	3.9	3.9	63.6	36.4	77
18021	26.4	.0	.0	2.8	11.1	15.3	2.8	1.4	1.4	2.8	63.9	36.1	72
TOT	64	0	2	7	42	46	23	4	6	9	203	98	301
PCT	21.3	.0	.7	2.3	14.0	15.3	7.6	1.3	2.0	3.0	67.4	32.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	18.8	2.2	2.0	7.2	18.8	50.0	138
06009	10.8	.8	7.9	4.6	26.9	54.6	130
12015	13.5	5.0	.7	12.8	26.2	41.8	141
18021	20.6	.7	1.9	8.1	29.4	39.7	136
TOT	87	12	10	45	138	253	545
PCT	16.0	2.2	1.8	8.3	25.3	46.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	25.3	31.2	42.2	36.1	21.7	83
06009	13.8	13.8	20.0	46.2	33.8	65
12015	20.3	26.1	36.2	34.8	29.0	69
18021	27.5	29.0	33.3	31.9	34.8	69
TOT	63	73	96	106	84	286
PCT	22.0	25.3	33.6	37.1	29.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	1.8	.0	.0	2	1.8
79/79	.0	.0	.0	.0	.0	1.8	5.5	5.5	14	12.8
70/74	.0	.0	.0	.0	.0	2.8	4.6	20.2	31	28.4
65/69	.0	.0	.0	.0	.0	2.8	6.4	22.9	35	32.1
60/64	.0	.0	.0	.0	.0	.0	9.2	13.8	26	23.9
59/59	.0	.0	.0	.0	.0	.0	.0	.9	1	.9
TOTAL	0	0	0	0	2	10	28	69	109	100.0
PCT	.0	.0	.0	.0	1.8	9.2	25.7	63.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0
.9	.9	1.8	2.8	3.0	3.4	.0	.0	.0	.0
1.4	1.8	3.4	11.2	1.6	4.1	3.4	1.4	.0	.0
.9	8.3	4.1	5.3	3.2	7.8	2.5	.0	.0	.0
.7	14.2	3.4	.0	1.8	2.1	.7	.0	.0	.9
.0	.0	.0	.0	.9	.0	.0	.0	.0	.0
3.9	25.2	12.8	19.3	10.6	17.4	8.5	1.4	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	81	77	68	59	57	56	68.5	167
06009	82	81	79	69	61	57	57	69.5	140
12015	82	77	75	67	60	57	57	67.2	166
18021	81	80	73	66	59	57	54	66.3	148
TOT	83	81	77	68	59	57	54	67.9	621

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	3.3	20.0	23.3	53.3	88	30
06009	.0	.0	3.2	6.5	35.5	54.8	90	31
12015	.0	.0	.0	6.5	22.6	71.0	92	31
18021	.0	.0	.0	.0	16.7	83.3	93	18
TOT	0	0	2	10	28	70	90	110

PERIOD: (PRIMARY) 1934-1971
(OVER-ALL) 1870-1971

AUGUST

AREA 0028 SEA OF JAPAN N
42.4N 139.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.4	.2	.0	3	.0	.6
11/13	.0	.0	.0	.0	.2	.2	.0	.2	3	.0	.6
9/10	.0	.0	.4	.2	.0	.6	.0	.4	8	.0	1.6
7/8	.0	.0	.0	.4	.4	.2	.0	.2	6	.0	1.2
6	.0	.0	.4	.4	.6	.2	.0	.0	8	.0	1.6
5	.0	.6	1.0	1.2	2.0	1.2	.6	.0	33	1.4	5.3
4	.0	.6	1.2	2.9	2.7	2.0	.2	.0	47	2.0	7.6
3	.0	.2	1.0	2.0	.8	.4	.0	.0	22	1.4	3.1
2	.0	.2	1.8	4.1	6.8	4.1	1.4	.0	90	2.5	16.0
1	.0	.0	.4	1.6	1.6	.8	.0	.0	22	.6	3.9
0	.0	.4	5.1	7.2	4.7	1.6	.2	.0	94	4.3	15.0
-1	.0	.4	2.0	.2	.4	.0	.0	.0	15	.6	2.5
-2	.0	1.6	5.5	4.1	1.8	.6	.0	.0	67	2.3	11.5
-3	.0	.6	.2	.8	.0	.0	.0	.0	8	.0	1.6
-4	.0	.8	3.5	2.5	.2	.2	.0	.0	35	1.4	5.7
-5	.2	1.2	1.6	.4	.2	.0	.0	.0	18	1.4	2.3
-6	.0	.0	.4	.2	.0	.0	.0	.0	3	.0	.6
-7/-8	.2	.2	.6	.0	.0	.0	.0	.0	5	.2	.8
-11/-13	.0	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	2		125		110		13		488	89	399
PCT	.4	7.0	25.6	28.3	22.5	12.7	2.7	.8	100.0	18.2	81.8

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	1.4	.8	.9	.0	.0	.0	3.1
1-2	.0	.5	.8	.0	.0	.0	1.3	.0	1.4	2.4	.0	.0	.0	3.8
3-4	.0	.0	.0	.3	.0	.0	.3	.0	.1	5.2	.6	.0	.0	5.9
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.0	4.2	.9	.0	.0	5.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.5	.0	.0	2.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.9	.0	3.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.5	.0	2.0
12	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.9	.1	.0	1.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	1.3	.3	.3	.0	3.7	1.4	2.3	13.2	8.7	1.5	.0	27.1

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.1	.0	.0	.0	.0	4.1	.0	1.3	.5	.0	.0	.0	1.7
1-2	.0	.5	1.7	.0	.0	.0	2.2	.0	.9	.6	.0	.0	.0	1.5
3-4	.0	.3	1.2	.0	.0	.0	1.5	.0	.6	2.4	.0	.0	.0	3.0
5-6	.0	.0	.5	.5	.0	.0	.9	.0	.0	2.3	.0	.0	.0	2.3
7	.0	.0	.0	.5	.0	.0	.3	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.8	.5	.0	1.3	.0	.0	.5	.0	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	3.4	2.1	.5	.0	10.8	.0	2.8	6.7	.0	.0	.0	9.5

PERIOD: (OVER-ALL) 1963-1971

AUGUST

AREA 0028 SEA OF JAPAN N
42.4N 135.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.7	.5	.0	.0	.0	.0		1.2	.3	2.4	.9	.0	.0	.0		4.6
1-2	.0	1.0	1.7	.0	.0	.0		2.8	.0	3.7	2.0	.0	.0	.0		5.7
3-4	.0	.8	1.9	.5	.0	.0		3.1	.0	1.0	4.7	.0	.0	.0		5.8
5-6	.0	.0	1.3	.0	.0	.0		1.3	.0	.0	1.0	.5	.0	.0		1.5
7	.0	.0	.0	.8	.0	.0		.8	.0	.0	1.4	.1	.0	.0		1.5
8-9	.0	.0	.0	.5	.0	.0		.5	.0	.0	.9	.0	.0	.0		.9
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.9	.0	.0	.0		.9
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.7	2.3	4.9	1.7	.0	.0		9.6	.3	8.1	11.0	1.5	.0	.0		20.9

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.3	.8	.0	.0	.0	.0		1.2	.5	.5	.0	.0	.0	.0		.9	
1-2	.0	1.3	.8	.0	.0	.0		2.1	.0	.0	.1	.0	.0	.0		.1	
3-4	.0	1.3	2.7	.5	.0	.0		4.4	.0	.0	.0	.0	.0	.0		.0	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.5	.0	.0		.5	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	3.4	3.5	.5	.0	.0		7.6	.5	.5	.1	.5	.0	.0		1.5	90.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	12.0	12.5	2.3	.0	.0	.0	26.9	
1-2	.0	9.3	10.2	.0	.0	.0	19.4	
3-4	.5	4.2	18.1	1.9	.0	.0	24.5	
5-6	.0	.0	9.7	2.3	.0	.0	12.0	
7	.0	.0	2.3	2.8	.0	.0	5.1	
8-9	.0	.0	.9	3.2	.9	.0	5.1	
10-11	.0	.0	.5	2.3	.9	.0	3.7	
12	.0	.0	.0	.9	.5	.0	1.4	
13-16	.0	.0	.0	1.9	.0	.0	1.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.5	25.9	44.0	15.3	2.3	.0	100.0	216

PERIOD: (OVER-ALL) 1957-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.4	10.9	16.2	3.4	1.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	3
6-7	.0	.8	3.4	4.2	4.3	2.6	1.5	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	6
8-9	.0	.0	.4	.4	1.5	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	7
10-11	.0	.0	.0	.0	.0	.0	1.1	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	11
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	13
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	10.6	7.5	7.5	4.9	2.6	.8	1.1	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	3
TOTAL	45	91	73	34	28	12	12	5	4	1	0	0	0	0	0	0	0	0	0	265	4
PCT	17.0	19.2	27.5	12.8	10.6	4.5	4.5	1.9	1.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1970
(OVER-ALL) 1856-1970

SEPTEMBER

AREA 0020 SEA OF JAPAN N
42.5N 135.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCF.	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	4.7	.0	2.6	.0	.0	.0	.0	7.3	.0	.0	1.7	.0	1.7	.0	89.3
NE	12.2	.0	.6	.0	.0	.0	.0	12.8	.0	.3	3.5	.0	.0	.0	83.3
E	21.2	2.4	.0	.0	.0	.0	.0	23.6	.0	4.2	.0	.0	.0	.0	72.1
SE	15.4	.0	.0	.0	.0	.0	.0	15.4	6.3	.0	.0	.0	.0	.0	78.0
S	1.7	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	98.3
SW	4.9	.0	.0	.0	.0	.0	.0	4.9	2.4	.0	9.5	.0	.0	.0	83.2
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.4	.0	.0	.0	89.8
NW	1.4	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.9	.0	.0	.0	96.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	92.3
TOT PCT	7.0														
TOT OBS:	454	.2	.4	.0	.0	.0	.0	7.7	.9	.7	4.2	.0	.2	.0	86.3

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA	
0000	6.3	.8	.0	.0	.0	.0	.0	7.1	.8	.0	3.1	.0	.0	.0	89.0	
0600	6.3	.0	.8	.0	.0	.0	.0	7.1	1.6	.0	4.0	.0	.0	.0	87.3	
1200	10.9	.0	1.0	.0	.0	.0	.0	11.9	1.0	.0	4.0	.0	1.0	.0	82.2	
1800	4.3	.0	.0	.0	.0	.0	.0	4.3	.0	2.6	7.0	.0	.0	.0	86.1	
TOT PCT TOT OBS:	6.8 469	.2	.4	.0	.0	.0	.0	7.5	.9	.6	4.5	.0	.2	.0	86.4	

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	6.0	4.1	.9	.2	.0		12.2	11.0		22.8	7.6	9.6	11.6	7.9	11.1	11.7	14.7
NE	1.3	8.9	7.4	1.9	.5	.0		20.0	13.1		20.4	25.3	27.6	14.7	16.8	22.1	16.0	14.7
E	1.4	5.2	2.7	.5	.4	.0		10.1	10.6		5.2	9.2	5.1	14.3	13.4	12.5	9.0	16.1
SE	.5	2.4	2.7	.1	.2	.0		5.9	11.0		4.9	10.5	12.5	5.8	2.7	1.9	3.0	3.6
S	1.4	3.4	1.4	.2	.0	.0		6.4	7.5		5.9	10.5	7.7	7.1	10.3	1.9	2.7	2.7
SW	1.7	8.8	6.9	.3	.2	.0		17.9	10.6		11.7	19.7	15.1	30.4	17.8	22.1	13.7	17.9
W	.7	7.1	4.2	1.7	.4	.0		14.1	12.3		11.1	11.5	10.6	11.6	18.8	12.5	18.3	16.8
NW	.5	4.5	3.9	1.4	.2	.0		10.5	12.9		14.2	4.3	10.6	4.5	11.0	13.9	13.7	11.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9							2.9	.0		3.7	1.3	1.3	.0	1.4	1.9	12.0	.0
TOT OBS	63	253	182	38	11	0	547		11.2		81	76	78	56	73	52	75	56
TOT PCT	11.5	46.3	33.3	6.9	2.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	4.1	5.9	2.1	.2	.0			12.2	11.0		15.4	10.4	9.2	13.0	
NE	4.7	9.4	5.0	.5	.4			20.0	13.1		22.8	22.2	19.0	13.9	
E	3.4	4.7	1.6	.4	.0			10.1	10.6		7.2	9.0	13.0	12.0	
SE	1.8	3.2	.5	.3	.0			5.9	11.0		7.6	9.7	2.4	3.2	
S	3.9	1.8	.5	.1	.0			6.4	7.5		8.1	7.5	6.8	2.7	
SW	4.7	10.0	3.0	.2	.0			17.9	10.6		15.6	21.5	19.6	13.5	
W	3.8	6.7	2.8	.6	.2			14.1	12.3		11.3	11.0	16.2	18.5	
NW	2.9	4.5	2.4	.7	.0			10.5	12.9		9.4	8.0	12.2	12.8	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	2.9							2.9	.0		2.5	.7	1.6	6.9	
TOT OBS	176	253	99	16	3	547			11.2		157	134	123	131	
TOT PCT	32.2	46.3	18.1	2.9	.5			100.0			100.0	100.0	100.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1938-1970
(OVER-ALL) 1956-1970

AREA 0028 SEA OF JAPAN N
42.5N 135.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.5	11.5	46.5	29.9	7.6	1.9	.0	10.9	100.0	157
06009	.7	8.2	43.3	35.1	9.0	3.7	.0	12.2	100.0	134
12015	1.6	6.4	45.6	39.2	5.6	1.6	.0	11.5	100.0	123
18021	6.9	7.6	49.6	29.8	5.3	.8	.0	10.2	100.0	131
TOT	16	47	253	182	38	11	0	11.2		547
PCT	2.9	8.6	46.3	33.3	6.9	2.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.0	1.8	3.3	3.1		4.0
NE	6.0	1.3	3.9	6.9		4.8
E	.4	1.2	2.1	3.9		6.5
SE	1.1	1.3	1.4	4.3		6.0
S	2.6	.7	2.4	1.0		3.7
SW	8.1	1.0	2.5	3.7		3.6
W	7.9	1.2	2.1	2.2		3.0
NW	7.9	1.0	2.5	1.3		2.6
VAR	.0	.0	.0	.0		.0
CALM	2.7	.8	.0	.4		1.7
TOT OBS	112	27	53	70	262	4.0
TOT PCT	42.7	10.3	20.2	26.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000 149	150 299	300 599	400 999	1000 1999	2000 3499	2500 4999	5000 6499	6500 7999	8000+	NH ANY	<5/8 HGT	TOTAL OBS
.4	.0	.0	.0	1.3	1.6	.7	.0	.0	.4		9.8	
1.5	.4	.0	.0	.5	2.5	1.7	.0	.8	.4		10.4	
.0	.0	.0	.0	1.8	1.8	.3	.0	.0	.3		3.4	
.0	.4	.0	.4	1.6	.9	.4	.0	.0	.1		4.5	
.0	.0	.0	.0	.0	1.3	.8	.0	.3	.0		4.2	
.9	.0	.4	.4	.4	2.0	.5	.0	.1	.0		10.7	
1.4	.0	.0	.4	.7	.0	.7	.0	.4	.0		9.9	
.0	.0	.0	.0	.2	.6	1.5	.0	.4	.0		10.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
.4	.0	.0	.0	.0	.0	.0	.0	.0	.0		3.4	
12	2	1	3	17	28	17	0	5	3		174	
4.6	.8	.4	1.1	6.5	10.7	6.5	.0	1.9	1.1		66.4	262

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
>5000	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
>3500	8.3	8.7	9.5	9.5	9.5	9.5	9.5	9.5
>2000	14.8	18.9	20.8	20.8	20.8	20.8	20.8	20.8
>1000	17.4	22.7	27.3	27.3	27.3	27.3	27.3	27.3
>600	17.4	23.1	28.0	28.0	28.0	28.4	28.4	28.4
>300	17.4	23.5	28.4	28.4	28.4	28.8	28.8	28.8
>150	17.8	24.2	29.2	29.2	29.2	29.5	29.5	29.5
>0	17.8	24.2	29.2	29.5	29.9	31.4	33.0	33.7
TOTAL	47	64	77	78	79	83	87	89

TOTAL NUMBER OF OBS: 264

PCT FREQ NM <5/8: 66.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	25.4	14.0	12.0	7.7	5.0	6.0	6.4	4.3	15.1	4.0	299

PERIOD: (PRIMARY) 1938-1970
(OVER-ALL) 1856-1970

SEPTEMBER

AREA 0028 SEA OF JAPAN N
42.5N 135.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.4	.0	.0	.0	1.2	.8	.0	.0	.0	.0	2.7
	TOT %	.2	.4	.0	.0	.0	1.2	.8	.0	.0	.0	.0	2.7
1/2<1	PCP	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.2	.7
	TOT %	.0	.0	.0	.0	.0	.6	.1	.0	.0	.2	.9	
1<2	PCP	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.9	
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.4	
	TOT %	.2	.7	.2	.0	.0	.0	.0	.2	.0	.0	1.3	
2<5	PCP	.3	.6	1.1	.3	.0	.7	.0	.0	.0	.0	2.4	
	NO PCP	.0	.0	.0	.9	.0	.5	.2	.0	.0	.4	2.0	
	TOT %	.3	.6	1.1	1.2	.0	.7	.2	.0	.0	.4	4.4	
5<10	PCP	.4	.9	.3	.8	.1	.4	.0	.2	.0	.0	3.1	
	NO PCP	1.8	2.6	1.7	1.1	1.4	2.9	2.3	1.6	.0	.4	15.8	
	TOT %	2.2	3.5	2.0	1.9	1.5	3.3	2.3	1.8	.0	.4	18.9	
10+	PCP	.0	.3	.6	.0	.0	.0	.0	.0	.0	.0	.9	
	NO PCP	9.7	13.4	5.3	3.8	5.1	12.2	9.9	9.6	.0	1.8	70.9	
	TOT %	9.7	13.8	5.9	3.8	5.1	12.2	9.9	9.6	.0	1.8	71.8	
TOT OBS													
TOT PCT													
		12.7	18.9	9.2	6.8	6.6	18.0	13.3	11.6	.0	2.9	100.0	450

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	4-10	.0	.4	.0	.0	.0	.9	.4	.0	.0	.0	1.6	
	11-21	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	TOT %	.2	.4	.0	.0	.0	1.1	.8	.0	.0	.0	2.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.2	.0	.0	.0	.3	.1	.0	.0	.0	.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	TOT %	.0	.2	.0	.0	.0	.5	.1	.0	.0	.2	1.0	
1<2	0-3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	4-10	.1	.2	.5	.0	.0	.2	.0	.2	.0	.0	1.2	
	11-21	.0	.3	.3	.0	.0	.2	.0	.0	.0	.0	.8	
	22+	.2	.8	.2	.0	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	.3	1.3	1.4	.0	.0	.4	.0	.2	.0	.0	3.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.0	.4	.0	.2	.0	.2	.5	.0	.0	.0	1.2	
	11-21	.3	.3	.4	.7	.1	.9	.0	.0	.0	.0	2.8	
	22+	.0	.2	.6	.2	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.3	1.1	1.0	1.1	.1	1.1	.5	.0	.0	.4	5.4	
5<10	0-3	.3	.3	.0	.0	.4	.0	.0	.1	.0	.4	1.4	
	4-10	.7	1.2	.9	.4	.7	2.3	1.4	.9	.0	.0	8.2	
	11-21	1.1	1.4	1.0	1.3	.2	.5	.3	.8	.0	.0	6.6	
	22+	.0	.4	.0	.1	.1	.2	.2	.0	.0	.0	1.0	
	TOT %	2.0	3.2	1.8	1.7	1.4	3.0	2.1	1.8	.0	.4	17.3	
10+	0-3	.9	1.0	1.1	.6	1.0	1.3	.8	.5	.0	1.8	8.8	
	4-10	5.8	6.8	4.1	2.1	3.0	4.8	4.7	3.4	.0	.0	24.5	
	11-21	2.3	.7	1.3	1.1	.8	5.2	2.7	3.3	.0	.0	21.3	
	22+	1.0	.3	.2	.0	.1	.1	1.3	1.6	.0	.0	5.4	
	TOT %	10.0	13.8	6.6	3.7	4.8	11.4	9.4	8.7	.0	1.8	70.3	
TOT OBS													
TOT PCT													
		12.8	19.9	10.8	6.5	6.3	17.5	12.8	10.7	.0	2.8	100.0	498

SEPTEMBER

PERIOD: (PRIMARY) 1938-1970
(OVER-ALL) 185A-1970AREA 0028 SEA OF JAPAN N
42.5N 135.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	180 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	4.9	.0	.0	2.4	3.7	15.9	3.7	.0	1.2	1.2	32.9	67.1	82
06009	2.5	1.3	1.3	1.3	8.9	6.3	7.6	.0	2.5	1.3	32.9	67.1	79
12015	3.1	.0	.0	.0	7.8	7.8	6.3	.0	3.1	3.1	31.3	68.8	64
18021	6.9	1.7	.0	.0	3.4	12.1	6.9	.0	.0	.0	31.0	69.0	58
TOT	12	2	1	3	17	30	17	0	5	4	91	192	283
PCT	4.2	.7	.4	1.1	6.0	10.6	6.0	.0	1.8	1.4	32.2	67.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.1	.7	2.1	4.2	11.8	79.2	144
06009	2.2	.7	3.0	5.2	14.2	74.6	134
12015	.9	1.8	4.9	7.2	28.8	56.8	111
18021	4.8	.8	4.8	5.6	16.9	66.9	124
TOT	13	5	18	28	89	360	513
PCT	2.5	1.0	3.5	5.5	17.3	70.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HRUR (GMT)	<190 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	5.0	5.0	8.8	25.0	66.2	80
06009	2.6	6.6	13.2	22.4	64.5	76
12015	1.9	1.9	11.1	22.2	66.7	54
18021	7.4	11.1	16.7	20.4	63.0	54
TOT	11	16	32	60	172	264
PCT	4.2	6.1	12.1	22.7	65.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.9	.9	.0	.9	.9	4	3.5
70/74	.0	.0	.0	.9	.0	.0	2.6	2.6	7	6.1
65/69	.0	.0	.9	.0	1.7	8.7	16.5	21.7	57	49.6
60/64	.0	.9	.9	2.6	5.2	6.1	4.3	4.3	28	24.3
55/59	.0	.0	.0	5.2	2.6	1.7	3.5	.9	16	13.9
50/54	.0	.0	.0	1.7	.0	.9	.0	.0	3	2.6
TOTAL	0	1	2	13	12	20	32	35	115	100.0
PCT	.0	.9	1.7	11.3	10.4	17.4	27.8	30.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	1.3	.2	.0	.0	.0	.9	.9	.2	.0	.0
70/74	.9	.9	1.7	.0	1.7	.9	.0	.0	.0	.0
65/69	8.7	8.7	7.8	7.4	1.5	5.4	1.7	7.4	.0	.9
60/64	3.5	3.0	.9	2.6	2.2	3.9	2.4	5.9	.0	.0
55/59	3.0	1.3	2.6	.0	.7	2.2	2.2	2.0	.0	.0
50/54	1.5	.2	.0	.0	.0	.0	.0	.9	.0	.0
TOTAL	18.9	14.6	13.0	10.0	6.1	13.3	7.2	16.3	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	78	76	73	69	54	52	50	64.9	156
06009	80	77	74	69	56	52	49	65.1	133
12015	75	74	70	64	54	50	48	63.5	126
18021	77	73	70	63	54	48	46	62.7	136
TOT	80	75	73	64	54	49	46	64.1	551

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	17.9	10.7	17.9	17.9	35.7	78	28		
06009	.0	16.2	13.5	18.9	27.0	24.3	76	37		
12015	.0	7.4	11.1	11.1	37.0	33.3	83	27		
18021	.0	12.5	4.2	20.8	29.2	33.3	80	24		
TOT	0	16	12	20	32	36	79	116		

SEPTEMBER

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1856-1970

TABLE 17

AREA 0028 SEA OF JAPAN N
42.5N 135.5E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
9/10	.0	.0	.0	.0	.0	.2	.0	.7	.0	4	.0	.9
7/8	.0	.0	.0	.0	.2	.2	.7	.2	.0	6	.0	1.4
6	.0	.0	.0	.2	.5	.2	.2	.0	.0	5	.2	.9
5	.0	.0	.0	.2	.7	1.8	.9	.5	.0	18	.5	3.6
4	.0	.0	.2	.0	.9	1.1	.9	.7	.0	17	.0	3.8
3	.0	.0	.0	.0	.7	.9	.2	.0	.0	8	.0	1.8
2	.0	.0	.0	.9	2.5	5.2	1.6	.5	.5	49	.7	10.4
1	.0	.0	.0	.2	1.4	1.8	.7	.0	.0	18	.2	3.8
0	.0	.0	.0	.7	9.5	5.9	1.4	.5	.0	79	.9	16.9
-1	.0	.0	.2	.2	2.9	2.7	.2	.0	.0	28	.0	6.3
-2	.0	.0	.7	1.1	6.8	5.4	.9	.2	.0	67	.7	14.4
-3	.0	.0	.5	1.1	1.8	.9	.5	.2	.0	22	.2	4.7
-4	.0	.2	.5	2.3	8.8	1.4	.0	.0	.0	58	.9	12.2
-5	.0	.2	1.8	1.6	2.5	.5	.2	.0	.0	30	.5	6.3
-6	.0	.0	.5	.2	.0	.0	.0	.0	.0	3	.0	.7
-7/-8	.0	.9	.5	2.3	.5	.0	.2	.0	.0	19	.0	4.3
-9/-10	.2	.2	.0	.2	.0	.2	.0	.0	.0	4	.0	.9
-11/-13	.2	.7	.2	.2	.2	.0	.0	.0	.0	7	.0	1.6
TOTAL	2		22		177		38		2	443	21	422
PCT	.5	2.3	5.0	11.5	40.0	28.4	8.6	3.4	.5	100.0	4.7	95.3

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.1	2.6	.0	.0	.0	.0	3.7	.1	4.3	.0	.0	.0	.0	4.4
1-2	.0	2.7	1.7	.0	.0	.0	4.3	.0	1.6	1.3	.0	.0	.0	2.9
3-4	.0	.3	2.3	.0	.0	.0	2.7	.0	.8	3.7	.4	.0	.0	4.7
5-6	.0	.0	.8	.0	.0	.0	.8	.0	.0	2.6	.4	.0	.0	3.0
7	.0	.0	.4	.8	.0	.0	1.2	.0	.0	1.3	2.0	.0	.0	3.3
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.6	5.7	.8	.0	.0	13.1	.1	6.4	8.9	3.3	.0	.0	18.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	2.0	.0	.0	.0	.0	2.4	.1	1.8	.0	.0	.0	.0	1.7
1-2	.0	1.8	.4	.0	.0	.0	2.2	.0	.9	2.3	.0	.0	.0	3.2
3-4	.0	.0	.3	.0	.0	.0	.3	.0	.0	1.0	.0	.0	.0	1.0
5-6	.0	.0	.7	.0	.0	.0	.7	.0	.0	.4	.0	.4	.0	.9
7	.0	.0	.4	.8	.0	.0	1.2	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.8	1.9	.8	.4	.0	7.3	.1	2.4	4.2	.0	.4	.0	7.2

PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER

AREA 0028 SEA OF JAPAN N
42.5N 139.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.1	.0	.0	.0	.0	2.9	.9	2.8	.0	.0	.0	.0	3.7
1-2	.0	.8	1.1	.0	.0	.0	1.9	.0	2.7	3.3	.0	.0	.0	6.0
3-4	.0	.4	.7	.0	.0	.0	1.1	.0	.6	2.6	.0	.0	.0	3.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	.0	.0	2.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.4	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.3	1.8	.0	.0	.0	5.9	.9	6.0	8.7	.0	.4	.0	16.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.8	.0	.0	.0	.0	1.8	.6	2.9	.4	.0	.0	.0	3.9	
1-2	.0	3.8	.3	.0	.0	.0	4.1	.0	2.8	.6	.0	.0	.0	3.3	
3-4	.0	.3	3.0	.8	.0	.0	4.1	.0	.9	1.1	.1	.0	.0	2.1	
5-6	.0	.0	.4	.4	.0	.0	.9	.0	.0	.4	.9	.0	.0	1.3	
7	.0	.0	.3	.0	.4	.0	.8	.0	.0	.9	.0	.0	.0	.9	
8-9	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.4	.0	.0	.4	
10-11	.0	.3	.0	.4	.0	.0	.4	.0	.0	.4	.4	.4	.0	1.3	
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	5.9	4.1	2.0	.9	.0	12.9	.6	6.6	3.9	2.0	.4	.0	13.4	94.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	9.3	20.0	.4	.0	.0	.0	29.8	
1-2	.0	16.9	11.1	.0	.0	.0	28.0	
3-4	.0	3.1	14.7	1.3	.0	.0	19.1	
5-6	.0	.0	8.0	1.8	.4	.0	10.2	
7	.0	.0	4.0	3.6	.9	.0	8.4	
8-9	.0	.0	.4	.9	.9	.0	2.2	
10-11	.0	.0	.4	.9	.4	.0	1.8	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.3	40.0	39.1	8.9	2.7	.0	100.0	225

PERIOD: (OVER-ALL) 1951-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	17.2	8.0	3.1	2.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	3
6-7	.0	.8	5.4	2.7	4.6	5.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	6
8-9	.0	.0	.0	.4	.4	.0	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	9
10-11	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	14.2	11.9	9.2	5.4	1.1	.8	1.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	3
TOTAL	43	78	59	30	22	16	10	3	0	0	0	0	0	0	0	0	0	0	0	261	3
PCT	16.5	29.9	22.6	11.5	8.4	6.1	3.8	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

2. OBER

PERIOD: (PRIMARY) 1930-1969
(OVER-ALL) 1870-1969

AREA 0028 SEA OF JAPAN N
42.3N 135.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	4.5	.0	1.0	.0	.0	.0	.0	6.5	.0	.0	1.5	.0	.0	.0	92.0
NE	3.8	.0	1.5	.0	.0	.0	.0	5.4	.0	.0	.8	.0	.0	.0	93.8
E	6.3	.0	.0	.0	.0	.0	.0	6.3	4.7	.0	6.3	.0	.0	.0	82.8
SE	1.8	.0	.0	.0	.0	.0	.0	1.8	1.8	.0	14.5	.0	.0	.0	81.8
S	8.4	3.4	.0	.0	.0	.0	.0	11.8	.0	.0	3.4	.0	.0	.0	84.9
SW	3.2	.0	1.4	.0	.0	.0	.0	4.7	.0	.0	2.9	.0	.0	.0	92.5
W	2.7	.0	.0	.0	.0	.0	.0	2.7	.0	.0	1.6	.0	.0	.0	95.7
NW	.4	.0	.0	.0	.0	.0	.0	.4	1.4	.0	.0	1.4	.0	.0	96.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.4	.3	.6	.0	.0	.0	.0	4.2	.6	.0	2.3	.3	.0	.0	92.7
TOT OBS:	354														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	3.3	1.1	.0	.0	.0	.0	.0	4.4	.0	.0	5.6	1.1	.0	.0	88.9
06009	1.9	.0	1.0	.0	.0	.0	.0	2.9	1.9	.0	1.9	.0	.0	.0	93.3
12015	4.2	.0	.0	.0	.0	.0	.0	4.2	1.1	.0	1.1	.0	.0	.0	93.7
18021	4.9	.0	1.2	.0	.0	.0	.0	6.2	.0	.0	.0	.0	.0	.0	93.8
TOT PCT	3.5	.3	.5	.0	.0	.0	.0	4.3	.8	.0	2.2	.3	.0	.0	92.4
TOT OBS:	370														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	3.7	6.1	1.5	.0	.0		12.0	14.4		12.7	7.8	11.7	6.8	14.2	13.4	12.1	17.9
NE	.1	3.0	4.7	.2	.0	.0		7.9	11.8		12.0	6.3	8.9	13.5	5.7	6.1	5.0	8.9
E	.7	2.5	1.2	.2	.0	.0		4.6	9.0		5.8	6.3	2.2	8.8	2.3	7.3	2.1	8.9
SE	1.2	2.2	.4	.9	.0	.0		4.7	10.6		2.2	7.0	1.3	7.4	4.8	6.1	3.9	10.7
S	.7	5.1	3.4	.3	.0	.0		9.5	10.0		10.9	14.1	10.4	4.1	9.1	7.3	7.9	8.9
SW	1.8	6.4	11.2	1.9	.0	.0		21.3	12.6		14.5	19.1	32.9	20.3	23.6	25.6	16.1	10.7
W	.5	6.6	9.0	1.1	.5	.0		17.8	13.4		14.5	19.9	19.9	16.2	16.5	22.0	15.4	14.3
NW	1.7	6.3	9.7	.9	.3	.0		18.9	12.6		27.5	16.4	8.9	23.0	17.3	9.8	28.9	19.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0		.0	3.1	3.8	.0	4.5	2.4	8.6	.0
TOT OBS	51	170	218	33	4	0	476		12.0		69	64	79	37	88	41	70	28
TOT PCT	10.7	35.7	45.8	6.9	.8	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	03	06	12
N	2.7	3.8	4.6	.8	.0			12.0	14.4		10.3	10.1	14.0	13.8
NE	2.0	4.3	1.6	.0	.0			7.9	11.8		9.2	10.3	5.8	6.1
E	2.4	1.3	1.0	.0	.0			4.6	9.0		6.0	4.3	3.9	4.1
SE	2.1	1.3	1.1	.2	.0			4.7	10.6		4.5	3.2	5.2	3.9
S	3.3	4.1	2.0	.0	.0			9.5	10.0		12.4	8.4	8.5	8.2
SW	4.5	10.8	9.4	.6	.0			21.3	12.6		16.7	28.9	24.2	14.5
W	1.9	11.2	4.0	.4	.1			17.8	13.4		17.1	18.8	19.6	13.1
NW	4.6	9.7	3.9	.8	.1			18.9	12.6		22.2	13.4	14.9	26.3
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	3.4							3.4	.0		1.5	2.6	3.9	6.1
TOT OBS	128	221	113	13	1	476			12.0		133	116	129	98
TOT PCT	26.9	46.4	23.7	2.7	.2			100.0			100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1930-1969
(OVER-ALL) 1870-1969AREA 0028 SEA OF JAPAN N
42.5N 139.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	1.3	4.5	42.9	42.6	6.8	.8	.0	11.7	100.0	133
0600Z	2.6	8.6	31.9	50.0	6.9	.0	.0	12.2	100.0	116
1200Z	3.9	7.0	34.9	45.0	8.5	.8	.0	12.6	100.0	129
1800Z	6.1	10.2	31.6	44.9	5.1	2.0	.0	11.4	100.0	98
TOT	10	35	170	218	33	4	0	12.0		476
PCT	3.4	7.4	29.7	45.8	6.9	.8	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.0	2.5	2.6	2.2		3.0
NE	2.3	.7	.6	3.6		4.9
E	1.4	.8	.0	.8		3.2
SE	.9	.0	.1	1.0		4.3
S	3.4	.3	2.6	.8		3.3
SW	10.3	3.1	4.4	2.8		3.2
W	11.5	1.6	3.2	.8		1.9
NW	16.8	3.8	1.9	1.6		1.8
VAR	.0	.0	.0	.0		.0
CALM	3.2	.0	.5	.0		.8
TOT OBS	127	28	35	30	220	2.7
TOT PCT	57.7	12.7	15.9	13.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) > 4/8
AND OCCURRENCE OF NM < 5/8 BY WIND DIRECTION

	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	NM < 5/8 TOTAL OBS
N	.0	.0	.0	.0	1.8	1.4	.3	.0	.8	.0	18.9
NE	.0	.0	.0	.0	1.4	.9	.0	.0	.6	.5	3.0
E	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	2.2
SE	.0	.0	.0	.0	.1	.6	.0	.0	.3	.0	.9
S	.0	.0	.0	.5	.3	1.3	.5	.0	.5	.5	4.2
SW	.0	.0	.0	.9	2.4	.7	.6	.0	.5	.9	14.8
W	.0	.0	.3	.0	1.7	1.1	.3	.0	.0	.0	13.5
NW	.0	.0	.1	.0	1.0	1.4	1.0	.0	.0	.0	20.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	3.2
TOT OBS	0	0	1	3	21	17	8	0	5	4	101
TOT PCT	.0	.0	.5	1.4	9.5	7.7	3.6	.0	2.3	1.8	73.2

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) > 4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	> 10	> 5	> 2	> 1	> 1/2	> 1/4	> 50YD	> 0
> 4500	3.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0
> 3000	3.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0
> 2500	4.4	7.5	7.5	7.5	7.5	7.5	7.5	7.5
> 2000	9.3	14.2	15.0	15.0	15.0	15.0	15.0	15.0
> 1000	14.2	22.1	24.3	24.3	24.3	24.3	24.3	24.3
> 600	14.2	22.6	23.7	26.1	26.1	26.1	26.1	26.1
> 300	14.2	23.0	26.1	26.5	26.5	26.5	26.5	26.5
> 150	14.2	23.0	26.1	26.5	26.5	26.5	26.5	26.5
> 0	14.2	23.0	26.1	26.5	26.5	26.5	26.5	26.5
TOTAL	32	52	59	60	60	60	60	60

TOTAL NUMBER OF OBS: 226

PCT FREQ NM < 5/8: 73.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
41.2	9.2	10.4	8.4	5.6	5.2	6.0	4.4	13.6	.0	230

PERIOD: (PRIMARY) 1930-1969
(OVER-ALL) 1870-1969

OCTOBER

AREA 0020 SEA OF JAPAN N
42.5N 135.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.6	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.6	
	TOT %	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.6	
2<5	PCP	.3	.0	.3	.1	.2	.0	.0	.0	.0	.0	.8	
	NO PCP	.9	.6	.0	.3	.3	1.1	.6	.3	.0	.3	3.7	
	TOT %	.6	.6	.3	.4	.5	1.1	.6	.3	.0	.3	4.5	
5<10	PCP	.5	.1	.0	.0	.5	.6	.5	.1	.0	.0	2.3	
	NO PCP	3.1	3.6	.6	1.4	1.0	2.8	3.0	6.1	.0	.6	22.1	
	TOT %	3.6	3.7	.6	1.4	1.5	3.4	3.5	6.2	.0	.6	24.4	
10+	PCP	.1	.1	.0	.0	.0	.3	.0	.0	.0	.0	.6	
	NO PCP	9.6	4.5	3.7	2.1	6.2	14.7	13.9	13.1	.0	1.7	69.4	
	TOT %	9.7	4.6	3.7	2.1	6.2	15.0	13.9	13.1	.0	1.7	70.0	
TOT OBS													353
TOT PCT		13.9	9.1	4.5	3.9	8.4	19.8	18.3	19.5	.0	2.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.2	.0	.0	.2	.0	.0	.2	.0		1.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.2	.0	.0	.2	.0	.0	.2	.0	.0	1.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
	4-10	.2	.0	.0	.0	.0	.0	.2	.0	.0		.5	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.1	.1	.0		.2	
	TOT %	.2	.0	.0	.0	.2	.5	.4	.1	.0	.0	1.5	
2<5	0-3	.0	.0	.0	.2	.0	.2	.0	.0	.0	.5	1.0	
	4-10	.0	.0	.0	.2	.2	.5	.0	.2	.0		1.2	
	11-21	.2	.5	.2	.0	.0	.4	.6	.2	.0		2.2	
	22+	.2	.0	.0	.1	.2	.0	.0	.0	.0		.5	
	TOT %	.5	.5	.2	.6	.4	1.2	.6	.5	.0	.5	4.9	
5<10	0-3	.0	.0	.2	.1	.1	.2	.0	.0	.0	.5	1.2	
	4-10	.5	.5	.2	.9	1.2	1.1	1.3	1.8	.0		7.6	
	11-21	2.1	2.6	.0	.0	.8	1.5	1.5	3.3	.0		11.8	
	22+	.6	.1	.0	.6	.1	.2	.2	.2	.0		2.0	
	TOT %	3.1	3.2	.5	1.6	2.3	3.1	3.0	5.3	.0	.5	22.5	
10+	0-3	.6	.1	.6	.6	.4	.7	.4	1.0	.0	1.5	5.9	
	4-10	3.4	2.8	2.4	1.0	3.9	4.5	3.9	8.7	.0		23.5	
	11-21	4.2	2.0	.6	.4	2.8	10.4	7.3	6.8	.0		34.6	
	22+	1.0	.0	.0	.0	.0	1.0	1.4	.8	.0		4.2	
	TOT %	9.1	4.8	3.6	2.0	7.0	16.5	13.2	12.3	.0	1.5	70.1	
TOT OBS													408
TOT PCT		13.2	8.8	4.3	4.1	10.2	21.3	17.2	18.5	.0	2.5	100.0	

OCTOBER

PERIOD: (PRIMARY) 1930-1969
(OVER-ALL) 1970-1969AREA 0028 SEA OF JAPAN N
42.5N 139.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	180 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00603	.0	.0	.0	4.9	8.2	11.5	1.6	.0	.0	1.6	27.9	72.1	61
06609	.0	.0	.0	1.4	11.0	5.5	5.5	.0	2.7	4.1	30.1	69.9	73
12615	.0	.0	.0	.0	5.1	10.2	3.4	.0	5.1	1.7	25.4	74.6	59
18621	.0	.0	2.2	.0	10.9	2.2	2.2	.0	.0	.0	17.4	82.6	46
TOT	0	0	1	4	21	18	8	0	5	5	62	177	239
PCT	.0	.0	.4	1.7	8.8	7.5	3.3	.0	2.1	2.1	25.9	74.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00603	.9	.0	1.9	6.5	14.0	76.6	107
06609	.9	.0	.9	2.6	18.4	77.2	114
12615	.9	.0	1.8	2.6	28.1	66.7	114
18621	1.1	.0	2.2	7.9	28.1	60.7	89
TOT	4	0	7	20	93	300	424
PCT	.9	.0	1.7	4.7	21.9	70.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ND5+	NM <5/8 AND 9+	TOTAL OBS
00603	.0	.0	12.5	19.6	67.9	56
06609	.0	.0	2.8	27.8	69.4	72
12615	.0	.0	7.1	21.4	71.4	56
18621	.0	2.4	9.5	16.7	73.8	42
TOT	0	1	17	50	159	226
PCT	.0	.4	7.5	22.1	70.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.0	3.7	.0	1	3.7
65/69	.0	.0	.0	.0	.0	3.7	.0	.0	1	3.7
60/64	.0	.0	.0	.0	.0	3.7	3.7	7.4	4	14.8
55/59	.0	.0	.0	7.4	.0	14.8	29.6	.0	14	51.9
50/54	.0	.0	.0	7.4	.0	3.7	.0	.0	3	11.1
45/49	.0	.0	.0	.0	3.7	.0	.0	.0	1	3.7
40/44	.0	.0	.0	.0	3.7	7.4	.0	.0	3	11.1
TOTAL	0	0	0	4	2	9	10	2	27	100.0
PCT	.0	.0	.0	14.8	7.4	33.3	37.0	7.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.9	.0	.0	.0	.0	.0	.0	1.9	.0	.0
.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0
.0	.0	3.7	3.7	.0	3.7	3.7	.0	.0	.0
13.0	16.7	10.2	.9	.0	3.7	.0	7.4	.0	.0
7.4	.0	.0	.0	.0	.0	3.7	.0	.0	.0
.0	.0	.0	.0	.0	.0	3.7	.0	.0	.0
3.7	.0	.0	.0	.0	3.7	3.7	.0	.0	.0
25.9	16.7	17.6	4.6	.0	11.1	14.8	9.3	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	72	71	68	57	40	36	28	55.5	137
06609	70	68	65	57	42	37	36	55.6	118
12615	73	65	61	54	42	32	29	52.9	130
18621	68	66	59	54	38	36	36	52.3	98
TOT	73	70	65	55	41	36	28	54.2	483

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	.0	.0	66.7	33.3	67	3
06609	.0	20.0	10.0	30.0	30.0	10.0	75	10
12615	.0	11.1	11.1	33.3	44.4	.0	75	9
18621	.0	20.0	.0	60.0	20.0	.0	74	5
TOT	0	4	2	9	10	2	76	27

OCTOBER

PERIOD: (PRIMARY) 1930-1969
(OVER-ALL) 1870-1969

TABLE 17

AREA 0028 SEA OF JAPAN N
42.3N 139.2EPCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.2	.3	6	.0	1.8
7/8	.0	.0	.0	.0	.0	.0	.3	.0	.3	.3	.6	.3	6	.0	1.8
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	1	.0	.3
5	.0	.0	.0	.0	.0	.0	.3	.3	.6	.9	.3	.3	9	.3	2.3
4	.0	.0	.0	.0	.0	.0	.3	.9	2.0	1.5	.6	.3	19	.0	5.6
3	.0	.0	.0	.0	.0	.0	.3	.3	.3	.0	.0	.0	3	.0	.9
2	.0	.0	.0	.0	.0	.3	.3	2.0	3.8	1.8	.6	.0	30	.3	8.5
1	.0	.0	.0	.0	.0	.0	.9	1.2	.6	.6	.0	.0	11	.0	3.2
0	.0	.0	.0	.0	.0	.6	1.5	2.0	5.6	1.5	.0	.0	38	.3	10.8
-1	.0	.0	.0	.0	.0	1.2	.0	.9	1.5	.0	.0	.0	12	.0	3.5
-2	.0	.0	.0	.0	.0	.9	1.8	2.9	5.6	.9	.0	.0	41	.6	11.4
-3	.0	.0	.0	.0	.0	.0	.0	1.2	.6	.3	.0	.0	7	.0	2.0
-4	.0	.0	.0	.3	.6	1.2	2.9	2.9	3.8	.0	.0	.0	40	.3	11.4
-5	.0	.0	.0	.0	.9	2.9	2.0	2.9	.9	.0	.0	.0	33	.0	9.6
-6	.0	.0	.0	.0	.6	1.2	.0	.0	.6	.0	.0	.0	8	.0	2.3
-7/-8	.0	.0	.0	.6	.0	2.3	2.9	1.2	.9	.3	.0	.0	28	.0	8.2
-9/-10	.0	.0	.3	.6	.0	1.5	4.1	.0	.0	.0	.0	.0	22	.0	6.4
-11/-13	.0	.0	.6	1.2	1.2	2.0	.9	.0	.0	.0	.0	.0	20	.6	5.3
-14/-16	.0	.3	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	6	.0	1.8
-20/-22	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.6
TOTAL	1	2	4	11	11	50	62	92	30	11	4	342	100.0	2.3	97.7
PCT	.3	.6	1.2	3.2	3.2	14.6	18.1	18.7	26.9	8.8	3.2	1.2	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.6	.0	.0	.0	.0	1.6	.0	.7	.0	.0	.0	.0	.7
1-2	.0	2.0	1.4	.0	.0	.0	3.4	.0	1.1	3.0	.0	.0	.0	4.1
3-4	.0	.0	3.6	.0	.0	.0	3.6	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.0	1.8	1.0	.0	.0	2.7	.0	.0	1.4	.1	.0	.0	1.5
7	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.7	7.7	3.7	.0	.0	15.0	.0	1.8	5.6	.1	.0	.0	7.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	1.0	.0	.0	.0	.0	1.5	.5	.5	.0	.0	.0	.0	1.1
1-2	.0	1.6	.0	.0	.0	.0	1.6	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.6	.4	.0	.0	.0	3.6	.5	1.6	.3	.5	.0	.0	3.0

PERIOD: (OVER-ALL) 1963-1969

OCTOBER

AREA 0028 SEA OF JAPAN N
42.5N 135.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	2.6	.5	.0	.0	.0	3.1	.0	3.4	4.1	.0	.0	.0	7.5
3-4	.0	.0	1.2	.0	.0	.0	1.2	.0	.5	5.5	.5	.0	.0	6.6
5-6	.0	.5	.4	.0	.0	.0	1.0	.0	.0	4.4	.5	.0	.0	4.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.2	2.2	.0	.0	.0	6.4	.0	4.5	16.7	2.2	.0	.0	23.4

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.6	.0	.0	.0	.0	1.6	.5	.5	.5	.0	.0	.0	1.6	
1-2	.0	2.0	7.0	.0	.0	.0	9.0	.0	3.0	5.3	.0	.0	.0	8.3	
3-4	.0	.5	2.6	.5	.0	.0	3.7	.0	.0	5.1	.5	.0	.0	5.6	
5-6	.0	.0	.0	.0	.5	.0	.5	.0	.0	2.3	.0	.0	.0	2.3	
7	.0	.0	.0	.4	.0	.0	.4	.0	.0	1.1	.7	.0	.0	1.8	
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.3	.0	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.2	10.0	1.0	1.1	.0	16.3	.5	3.6	14.6	1.2	.0	.0	19.9	95.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.6	7.7	.5	.0	.0	.0	14.8	
1-2	.0	16.9	21.3	.0	.0	.0	38.2	
3-4	.0	1.1	19.7	1.6	.0	.0	22.4	
5-6	.0	.5	10.4	1.6	.5	.0	13.1	
7	.0	.0	2.7	2.2	.0	.0	4.9	
8-9	.0	.0	1.1	.5	.0	.0	1.6	
10-11	.0	.0	1.6	.5	.0	.0	2.2	
12	.0	.0	.0	1.1	.0	.0	1.1	
13-16	.0	.0	.0	.5	.5	.0	1.1	
17-19	.0	.0	.0	.5	.0	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.6	26.2	57.4	8.7	1.1	.0	100.0	183

PERIOD: (OVER-ALL) 1951-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.9	15.2	9.5	5.2	2.4	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	3
6-7	.0	.9	4.3	2.8	.9	.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	5
8-9	.0	1.9	.9	.9	.5	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
10-11	.0	.0	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	15
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	7.6	18.5	8.5	3.8	.9	.5	1.9	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	3
TOTAL	20	77	49	27	16	4	7	1	9	1	0	0	0	0	0	0	0	0	0	0	211	4
PCT	9.5	36.5	23.2	12.8	7.6	1.9	3.3	.5	4.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1955-1970
(OVER-ALL) 1980-1970

NOVEMBER

AREA 0028 SEA OF JAPAN N
42.5N 135.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	.0	.0	.3	.0	3.3	.0	.0	3.3	.0	.0	.0	.0	.0	.0	96.7
NE	.0	.0	.0	.0	30.4	.0	.0	30.4	.0	.0	5.1	1.3	.0	.0	63.3
E	.0	.0	.0	.0	13.8	.0	.0	13.8	.0	.0	.0	10.3	.0	.0	75.9
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.9	.0	.0	.0	87.1
S	5.0	.0	5.0	.0	.0	.0	.0	5.0	20.0	.0	3.8	.0	8.8	.0	62.5
SW	1.9	.0	3.7	.0	.0	.0	.0	5.6	1.9	.0	4.6	.0	2.3	.0	85.6
W	.0	.0	.0	.0	1.7	.0	.0	1.7	.0	.0	1.3	.0	.0	.0	97.1
NW	.0	2.2	1.1	.0	1.1	.0	.0	4.4	.0	.0	.0	.0	1.1	.0	94.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.7	.7	1.3	.0	3.3	.0	.0	5.7	1.7	.0	2.0	.3	1.3	.0	89.0
TOT OBS:	299														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
0000Z	1.2	.0	2.4	.0	3.6	.0	.0	6.0	2.4	.0	.0	.0	.0	.0	91.6
0600Z	1.3	.0	.0	.0	.0	.0	.0	1.3	1.3	.0	5.1	.0	1.3	.0	91.1
1200Z	.0	2.6	2.6	.0	3.8	.0	.0	9.0	1.3	.0	1.3	1.3	1.3	.0	85.9
1800Z	.0	.0	.0	.0	5.9	.0	.0	5.9	1.5	.0	1.5	.0	2.9	.0	88.2
TOT PCT	.6	.6	1.3	.0	3.2	.0	.0	5.5	1.6	.0	1.9	.3	1.3	.0	89.2
TOT OBS:	308														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	2.2	5.7	2.5	.1	.0		10.8	17.2		16.0	4.8	5.9	20.5	6.3	14.3	10.1	33.9
NE	.3	3.6	2.6	.6	.4	.0		7.5	13.1		7.6	7.1	6.9	2.3	8.0	14.3	6.5	7.1
E	.3	1.1	.6	.2	.0	.0		2.2	10.1		2.8	.0	3.5	.0	2.3	2.4	1.6	.0
SE	.6	1.9	.0	.0	.0	.0		2.5	5.8		.0	6.0	4.2	.0	1.3	4.8	1.6	10.7
S	.6	3.4	2.9	.8	.3	.0		7.3	13.3		6.6	10.7	4.9	.0	11.7	4.8	8.0	10.7
SW	.5	9.8	9.7	.9	.1	.0		17.0	11.1		19.1	14.3	22.2	29.5	15.7	8.3	15.3	.0
W	.4	9.8	8.1	2.6	1.3	.0		22.0	14.1		17.4	25.7	21.5	40.9	18.0	28.6	24.2	14.3
NW	.0	5.7	13.6	7.3	1.5	.0		28.0	18.8		29.2	21.4	28.1	6.8	31.3	22.6	31.5	23.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0		1.6	.0	2.8	.0	5.3	.0	3.2	.0
TOT OBS	19	130	134	52	13	0	348		14.4		72	21	72	11	75	21	62	14
TOT PCT	5.5	37.4	38.5	14.9	3.7	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.9	3.3	5.7	.8	.1		10.8	17.2	13.4	7.8	8.1	14.5	
NE	2.2	3.4	1.4	.1	.4		7.5	13.1	7.5	6.3	9.4	8.6	
E	1.0	.7	.5	.0	.0		2.2	10.1	2.2	3.0	2.3	1.3	
SE	1.5	1.0	.0	.0	.0		2.5	5.8	1.3	3.6	2.1	3.3	
S	1.7	3.9	.9	.6	.3		7.3	13.3	7.2	4.2	10.2	6.9	
SW	5.0	8.6	3.3	.1	.0		17.0	11.1	18.0	23.2	14.1	12.5	
W	4.0	11.4	5.0	1.5	.0		22.0	14.1	21.5	24.1	20.3	22.4	
NW	.9	12.2	10.5	3.8	.6		28.0	18.8	27.4	25.3	29.4	29.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.6						2.6	.0	1.1	2.4	4.2	2.6	
TOT OBS	69	155	95	24	5	348		14.4	72	21	75	62	
TOT PCT	19.8	44.5	27.3	6.9	1.4		100.0		100.0	100.0	100.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1953-1970
(OVER-ALL) 1880-1970AREA 0025 SEA OF JAPAN N
42.5N 135.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.1	1.1	33.3	44.1	17.2	3.2	.0	15.0	100.0	93
06009	2.4	2.4	43.4	26.5	18.1	7.2	.0	14.7	100.0	83
12015	4.2	4.2	37.5	36.5	15.6	2.1	.0	14.1	100.0	96
18021	2.6	3.9	35.5	47.4	7.9	2.6	.0	14.0	100.0	76
TOT	9	10	130	134	52	13	0	14.4		348
PCT	2.6	2.9	37.4	38.5	14.9	3.7	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.9	1.3	3.3	2.0		3.9
NE	1.7	1.2	1.9	1.6		4.7
E	.0	.0	1.4	.4		6.4
SE	.4	.0	1.3	.8		6.0
S	1.3	.4	1.8	2.1		5.6
SW	7.2	.4	4.3	5.7		4.4
W	12.5	2.7	3.9	2.2		2.6
NW	18.3	2.4	6.5	3.6		3.0
VAR	.0	.0	.0	.0		.0
CALM	.8	.4	.8	.8		4.5
TOT OBS	118	22	63	48	251	3.7
TOT PCT	47.0	8.8	25.1	19.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIRECTION											
000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.4	.0	.0	.0	1.9	1.1	.7	.0	.4	.0	7.0	
.4	.0	.0	.0	.5	1.2	.2	.8	.0	.4	2.9	
.0	.0	.0	.0	.3	.8	.3	.0	.0	.0	.4	
.0	.0	.0	.0	.8	.0	.1	.4	.0	.0	1.2	
.0	.0	.0	1.1	1.1	.8	.3	.0	.3	.0	2.0	
.1	.4	.4	.9	4.8	1.2	.4	.4	.1	.0	8.9	
.3	.0	.0	.0	2.8	.7	1.6	.0	.4	.0	13.4	
.0	.0	.0	.0	5.4	3.0	1.2	.0	.4	.0	20.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.8	.0	.4	1.6	
.3	1	1	5	44	22	12	6	4	2	151	
1.2	.4	.4	2.0	17.5	8.8	4.8	2.4	1.6	.8	60.2	231

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
= OR >5000	2.8	4.0	4.8	4.8	4.8	4.8	4.8	4.8
= OR >3500	7.5	8.7	9.5	9.5	9.5	9.5	9.5	9.5
= OR >2000	12.3	16.3	17.5	17.5	18.3	18.3	18.3	18.3
= OR >1000	23.8	32.9	34.5	34.5	35.7	35.7	35.7	35.7
= OR >600	24.2	34.1	36.1	36.5	37.7	37.7	37.7	37.7
= OR >300	24.2	34.1	36.5	36.9	38.1	38.1	38.1	38.1
= OR >150	24.2	34.1	36.9	37.3	38.5	38.5	38.5	38.5
= OR >0	24.2	34.1	37.3	37.7	38.9	39.3	39.3	39.3
TOTAL	61	86	94	95	98	99	99	99

TOTAL NUMBER OF OBS: 252

PCT FREQ NH <5/8: 60.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
33.3	5.9	12.6	4.1	4.4	3.3	11.5	7.0	16.7	1.1	270

PERIOD: (PRIMARY) 1955-1970
(OVER-ALL) 1980-1970

NOVEMBER

AREA 0028 SEA OF JAPAN N
42.5N 139.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.4	.3	.0	.0	.0	.7	.7
	TOT %	.0	.0	.0	.0	.0	.4	.3	.0	.0	.0	.7	.7
1/2<1	PCP	.0	1.3	.0	.0	.0	.3	.0	.0	.0	.0	1.7	1.7
	NO PCP	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.3	.3
	TOT %	.0	1.4	.3	.0	.0	.3	.0	.0	.0	.0	2.0	2.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	.3
	TOT %	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	.3
2<5	PCP	.3	.7	.0	.0	.0	.3	.0	.0	.0	.0	1.3	1.3
	NO PCP	.3	.1	.3	.3	.9	1.1	1.4	1.3	.0	.3	6.0	6.0
	TOT %	.6	.8	.3	.3	.9	1.4	1.4	1.3	.0	.3	7.4	7.4
5<10	PCP	.0	.0	.3	.0	.3	.3	.0	1.3	.0	.0	2.3	2.3
	NO PCP	3.4	.7	.3	1.0	1.7	4.6	4.5	9.5	.0	1.3	23.2	23.2
	TOT %	3.4	.7	.7	1.0	2.0	4.9	4.5	8.9	.0	1.3	25.5	25.5
10+	PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.3
	NO PCP	6.3	3.4	1.2	1.3	3.4	11.0	13.6	22.6	.0	1.0	63.6	63.6
	TOT %	6.3	3.4	1.2	1.3	3.4	11.0	13.9	22.6	.0	1.0	64.1	64.1
TOT OBS													298
TOT PCT		10.9	6.3	2.4	2.6	6.7	18.1	20.1	30.7	.0	2.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	.3
	TOT %	.0	.0	.0	.0	.0	.4	.2	.3	.0	.0	.9	.9
1/2<1	0-3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
	4-10	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.6	.6
	11-21	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6
	22+	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.3	.3
	TOT %	.0	1.3	.2	.0	.0	.3	.0	.0	.0	.0	1.8	1.8
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.3	.0	.0	.3	.0	.0	.6	.6
	TOT %	.0	.0	.0	.2	.5	.0	.0	.3	.0	.0	.9	.9
2<5	0-3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	.6	.6
	4-10	.2	.1	.3	.3	.2	1.0	.5	.1	.0	.0	2.7	2.7
	11-21	.3	.6	.0	.0	.3	.3	1.4	.8	.0	.0	3.6	3.6
	22+	.2	.2	.0	.0	.3	.0	.0	.3	.0	.0	.9	.9
	TOT %	1.0	.8	.3	.3	.8	1.3	1.9	1.1	.0	.3	7.9	7.9
5<10	0-3	.0	.0	.0	.3	.0	.3	.0	.0	.0	1.2	1.8	1.8
	4-10	.8	.3	.3	.6	.8	3.2	1.7	1.2	.0	.0	8.8	8.8
	11-21	2.0	.2	.3	.0	.8	7.7	1.5	1.9	.0	.0	7.3	7.3
	22+	1.1	.3	.0	.0	.3	.3	1.1	3.7	.0	.0	7.0	7.0
	TOT %	3.9	.5	.6	.9	1.8	4.3	4.3	6.8	.0	1.2	24.9	24.9
10+	0-3	.0	.0	.3	.3	.6	.2	.4	.0	.0	1.2	3.0	3.0
	4-10	1.4	1.9	.3	.8	1.8	3.6	7.0	4.4	.0	.0	23.4	23.4
	11-21	3.1	1.1	.3	.0	1.1	4.4	9.1	11.4	.0	.0	26.4	26.4
	22+	1.5	.3	.0	.0	.2	.8	3.0	4.6	.0	.0	10.6	10.6
	TOT %	6.0	3.4	1.1	1.1	3.7	11.0	15.3	20.4	.0	1.2	63.5	63.5
TOT OBS													329
TOT PCT		10.9	6.3	2.2	2.5	6.8	17.3	21.9	29.0	.0	2.7	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1953-1970
(OVER-ALL) 1880-1970AREA 0028 SEA OF JAPAN N
42.5N 135.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	1.4	.0	1.4	1.4	16.9	11.3	4.2	1.4	1.4	.0	39.4	60.6	71
06009	1.4	1.4	.0	1.4	18.6	8.6	10.0	1.4	4.3	.0	47.1	52.9	70
12015	.0	.0	.0	4.7	15.6	4.7	3.1	3.1	.0	1.6	32.8	67.2	64
18021	1.7	.0	.0	.0	15.5	8.6	.0	3.4	.0	1.7	31.0	69.0	58
TOT	3	1	1	5	44	22	12	6	4	2	100	163	263
PCT	1.1	.4	.4	1.9	16.7	8.4	4.6	2.3	1.5	.8	38.0	62.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.1	.0	4.3	20.4	74.2	93
06009	1.2	1.2	.0	6.1	18.3	73.2	82
12015	1.1	2.2	3.4	12.4	30.3	50.6	89
18021	1.4	2.7	.0	8.1	29.7	58.1	74
TOT	3	6	3	26	83	217	338
PCT	.9	1.8	.9	7.7	24.6	64.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	1.4	4.2	7.0	32.4	60.6	71
06009	.0	2.9	8.8	41.2	50.0	68
12015	.0	.0	15.8	29.8	54.4	57
18021	1.8	3.6	8.9	26.8	64.3	56
TOT	2	7	25	83	144	252
PCT	.8	2.8	9.9	32.9	57.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	1.1	.0	3.2	4	4.2
55/59	.0	.0	.0	.0	.0	1.1	2.1	1.1	4	4.2
50/54	.0	.0	.0	.0	2.1	3.2	3.2	3.2	11	11.6
45/49	.0	.0	.0	.0	2.1	.0	5.3	7.4	14	14.7
40/44	.0	.0	.0	2.1	2.1	3.2	6.3	5.3	18	18.9
35/39	.0	.0	.0	3.2	5.3	3.2	4.2	8.4	23	24.2
30/34	.0	.0	.0	1.1	.0	4.2	4.2	5.3	14	14.7
25/29	.0	.0	.0	.0	.0	2.1	1.1	.0	3	3.2
20/24	.0	.0	.0	.0	2.1	.0	2.1	.0	4	4.2
TOTAL	0	0	0	6	13	17	27	32	93	100.0
PCT	.0	.0	.0	6.3	13.7	17.9	28.4	33.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	2.6	1.6	.0	.0	.0	.0
.0	.0	.0	2.1	.0	1.1	.8	.3	.0	.0
.8	.0	1.1	1.1	1.1	.0	5.0	2.6	.0	.0
2.1	.0	.0	.0	2.6	6.3	2.6	1.1	.0	.0
1.1	.0	.0	1.1	1.1	2.4	1.8	11.6	.0	.0
3.9	2.4	2.1	.0	.8	1.3	3.7	10.0	.0	.0
.3	4.2	.0	.3	.8	1.1	.8	7.1	.0	.0
.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0
.0	.0	.0	.0	.0	.0	2.6	1.6	.0	.0
8.4	6.6	3.2	4.5	8.9	13.7	17.4	37.4	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	64	60	58	42	23	16	16	41.8	95
06009	61	60	54	39	27	18	18	40.7	82
12015	62	61	57	39	23	12	12	39.9	95
18021	61	60	55	40	21	14	14	38.5	76
TOT	64	61	55	40	23	16	12	40.3	348

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.8	11.5	15.4	26.9	42.3	84	26
06009	.0	9.1	18.2	18.2	31.8	22.7	79	22
12015	.0	12.0	12.0	16.0	28.0	32.0	80	25
18021	.0	.0	17.4	21.7	26.1	34.8	83	23
TOT	0	6	14	17	27	32	82	96

NOVEMBER

PERIOD: (PRIMARY) 1953-1970
(OVER-ALL) 1880-1970

TABLE 17

AREA 0028 SEA OF JAPAN N
42.3N 135.1EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	2	.0	.8
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	3	.0	1.3
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	1.3	.0	4	.0	1.7
5	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.4	.4	1.3	.4	.0	9	.0	3.8
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.8	.8	.4	.4	10	.0	4.2
3	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.4	.0	.0	.0	3	.0	1.3
2	.0	.0	.0	.0	.0	.0	.0	.0	.4	.8	.0	1.7	.4	.4	9	.8	2.9
1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.8	.0	.0	.0	4	.0	1.7
0	.0	.0	.0	.0	.0	.0	.4	1.3	1.3	1.7	1.7	1.3	1.3	.0	21	.0	8.8
-1	.0	.0	.0	.0	.0	.0	.4	.4	.4	.0	.4	.0	.0	.0	4	.0	1.7
-2	.0	.0	.0	.0	.0	.0	.8	2.1	.8	1.7	1.3	.0	.0	.0	16	.0	6.7
-3	.0	.0	.0	.0	.0	.0	.8	.4	.0	.4	.4	.0	.0	.0	5	.0	2.1
-4	.0	.0	.0	.0	.0	.8	.4	1.3	1.7	1.7	.0	.4	.0	.0	15	.8	5.4
-5	.0	.0	.0	.0	.4	.8	.8	1.7	2.5	.0	.0	.4	.0	.0	16	.0	6.7
-6	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.4	.0	.0	.0	3	.0	1.3
-7/-8	.0	.0	.0	.0	.0	.4	1.3	2.1	2.5	.4	.4	.0	.0	.0	17	.4	6.7
-9/-10	.0	.0	.0	.4	.4	1.3	3.0	2.1	1.7	.8	.0	.0	.0	.0	28	.0	11.7
-11/-12	.0	.0	.8	.4	2.9	2.1	3.3	4.2	.4	.4	.4	.0	.0	.0	36	.0	15.0
-14/-16	.0	.0	.4	.0	1.3	.0	1.3	.0	.4	.8	.0	.0	.0	.0	10	.0	4.2
-17/-19	.0	.0	.4	.8	.8	2.5	.0	.0	.0	.0	.0	.0	.0	.0	11	.0	4.6
-20/-22	.0	.0	.4	1.3	.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	7	.0	2.9
-23/-25	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.4
-26/-30	.4	.0	.8	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	4	.0	1.7
<-30	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.8
TOTAL	1	2	7	8	15	19	38	34	29	21	16	9	2	240	5	235	
PCT	.4	.8	2.9	3.3	6.3	7.9	15.8	16.3	14.2	12.1	8.8	6.7	3.8	.8	100.0	2.1	97.9

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.5	.5	.0	.0	.0	.0	1.0
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	.2	.5	.0	.0	.0	.7
3-4	.0	.5	1.3	1.2	.0	.0	3.1	.0	.5	2.5	.0	.0	.0	2.9
5-6	.0	.0	1.7	.5	.0	.0	2.2	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	1.0	1.3	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	4.4	3.1	.0	.0	9.8	.5	1.2	3.4	.0	.0	.0	3.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.5	.0	.0	.0	.0	1.0	1.0	.6	.0	.0	.0	.0	1.6
1-2	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.0	.0	.0	.0	1.0	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.3	1.0	.0	.0	.0	2.8	1.0	1.1	.0	.0	.0	.0	2.1

PERIOD: (OVER-ALL) 1963-1970

NOVEMBER
TABLE 18 (CONT)AREA 0028 SEA OF JAPAN N
42.5N 135.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	.4	.0	.0	.0	.0	.9	.1	2.1	.0	.0	.0	.0	2.2	
1-2	.0	.7	.4	.0	.0	.0	1.1	.0	1.2	2.5	.0	.0	.0	3.7	
3-4	.5	1.7	.0	.4	.0	.0	2.5	.0	2.8	2.9	.1	.0	.0	5.9	
5-6	.0	.5	.0	.0	.0	.0	.5	.0	1.5	2.0	1.5	.0	.0	4.9	
7	.0	.0	.5	.0	.0	.0	.5	.0	1.5	.5	.0	.1	.0	2.1	
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	3.3	.9	.9	.5	.0	6.5	.1	9.1	7.8	1.6	.1	.0	18.8	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	.9	.0	.0	.0	.0	1.2	.0	.5	.0	.0	.0	.0	.5	
1-2	.0	1.5	2.1	.0	.0	.0	3.6	.0	1.5	1.5	.0	.0	.0	2.9	
3-4	.0	2.2	3.1	.0	.0	.0	5.3	.0	1.1	5.9	1.2	.0	.0	8.2	
5-6	.0	.4	2.0	.9	.0	.0	3.2	.0	1.1	3.7	1.6	.0	.0	6.4	
7	.0	.0	.4	1.6	1.2	.0	3.2	.0	.0	6.0	1.0	1.6	.0	8.6	
8-9	.0	.0	.0	.9	.0	.0	.9	.0	.0	.6	1.1	.5	.0	2.2	
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.5	1.0	1.6	.0	.0	3.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	1.0	
13-16	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	4.9	7.8	3.7	1.2	.0	18.0	.0	4.7	19.2	7.0	2.1	.0	33.0	96.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.9	5.9	.0	.0	.0	.0	12.7	
1-2	.0	7.4	6.9	.0	.0	.0	14.2	
3-4	.5	9.3	16.7	2.9	.0	.0	29.4	
5-6	.0	3.4	9.8	4.4	.0	.0	17.6	
7	.0	1.5	8.3	3.9	2.9	.0	16.7	
8-9	.0	.0	1.0	2.5	.5	.0	3.9	
10-11	.0	.5	1.0	2.0	.0	.0	3.4	
12	.0	.0	.5	.5	.0	.0	1.0	
13-16	.0	.0	.5	.0	.5	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.4	27.9	44.6	16.2	3.9	.0	100.0	204

PERIOD: (OVER-ALL) 1953-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	10.4	19.9	8.0	7.8	1.6	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	124	4
6-7	.0	3.2	.8	2.8	2.8	1.6	2.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	6
8-9	.0	.4	.0	1.2	.8	.0	1.2	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
10-11	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	14
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	4.0	4.8	7.6	6.8	4.4	3.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	4
TOTAL	12	47	71	47	40	16	10	3	5	0	0	0	0	0	0	0	0	0	0	251	5
PCT	4.8	18.7	28.3	18.7	15.9	6.4	4.0	1.2	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1960-1972
(OVER-ALL) 1872-1972

DECEMBER

AREA 0028 SEA OF JAPAN N
42.5N 135.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	1.8	.0	.0	.0	14.7	.0	.0	18.5	6.4	.0	3.7	.0	.0	.0	.0	73.4
NE	.0	.0	.0	.0	39.4	.0	.0	39.4	.0	.0	.0	.0	.0	.0	.0	60.6
E	.0	.0	.0	.0	25.8	.0	.0	25.8	12.9	.0	12.9	.0	9.7	.0	.0	38.7
SE	7.8	7.8	.0	.0	.0	.0	.0	15.7	7.8	.0	.0	.0	2.0	.0	.0	74.5
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.9	.0	3.7	.0	.0	.0	.0	4.6	7.4	.0	.0	.0	3.7	.0	.0	84.3
W	4.7	.0	.0	.0	6.0	.0	.0	8.9	3.0	.0	3.0	.0	.0	.0	.0	85.1
NW	1.3	.0	.0	.0	5.7	.0	.0	6.2	2.2	.0	3.7	.0	.0	.0	.0	87.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.1	.4	.4	.0	8.1	.0	.0	10.2	3.5	.0	2.8	.0	.7	.0	.0	82.7
TOT OBS:	284															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
0000	2.7	.0	.0	.0	8.2	.0	.0	11.0	4.1	.0	5.5	.0	1.4	.0	.0	78.1
0600	1.3	1.3	.0	.0	6.3	.0	.0	8.8	1.3	.0	1.3	.0	1.3	.0	.0	87.3
1200	1.3	.0	1.3	.0	7.9	.0	.0	9.2	6.6	.0	2.6	.0	.0	.0	.0	81.6
1800	2.9	.0	.0	.0	10.1	.0	.0	11.6	1.4	.0	4.3	.0	.0	.0	.0	82.6
TOT PCT	2.0	.3	.3	.0	8.1	.0	.0	10.1	3.4	.0	3.4	.0	.7	.0	.0	82.6
TOT OBS:	298															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	3.2	4.9	2.8	.0	.0		11.1	15.6		10.8	12.5	9.9	6.3	9.9	7.7	14.0	21.4
NE	.9	1.5	1.8	1.2	.3	.0		5.7	14.5		8.7	9.4	5.4	.0	2.2	3.8	7.4	.0
E	.0	.7	1.4	.6	.0	.0		2.7	16.4		4.9	.0	2.2	.0	1.9	3.8	2.9	.0
SE	.3	2.5	1.0	.4	.0	.0		4.2	10.4		2.4	9.4	2.9	12.5	4.2	.0	5.1	14.3
S	.0	1.8	1.9	.4	.0	.0		4.1	12.1		1.4	12.5	4.2	12.5	4.8	.0	3.7	7.1
SW	.3	3.8	3.8	1.1	.0	.0		9.0	13.3		9.4	10.9	12.8	15.6	8.7	3.8	3.3	21.4
W	.0	5.1	8.5	4.9	1.8	.0		20.1	18.4		21.5	14.1	18.3	21.9	20.8	23.1	20.6	21.4
NW	.3	7.4	19.7	10.1	2.4	.0		39.8	18.1		36.8	31.3	42.9	31.3	44.9	50.0	37.1	14.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2	.0	.0	.0	.0	.0		3.2	.0		4.2	.0	1.3	.0	2.6	7.7	5.9	.0
TOT OBS	18	88	146	73	15	0	340		16.1		72	16	78	8	78	13	68	7
TOT PCT	5.3	25.9	42.9	21.5	4.4	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.8	4.5	3.6	1.2	.0		11.1	15.6	11.1	9.6	9.6	14.7	
NE	1.4	1.9	1.8	.6	.0		5.7	14.5	8.8	4.9	2.5	6.7	
E	.2	1.0	.9	.6	.0		2.7	16.4	4.0	2.0	2.2	2.7	
SE	2.1	1.3	.7	.1	.0		4.2	10.4	3.7	3.8	3.6	6.0	
S	1.0	2.5	.4	.1	.0		4.1	12.1	3.4	4.9	4.1	4.0	
SW	2.3	4.1	2.1	.6	.0		9.0	13.3	9.7	13.1	8.6	3.0	
W	2.5	6.9	7.1	2.9	.7		20.1	18.4	20.2	18.6	21.2	20.7	
NW	1.3	17.8	15.8	4.1	.7		39.8	18.1	35.8	41.9	45.6	33.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.2						3.2	.0	3.4	1.2	3.3	3.3	
TOT OBS	34	136	110	35	5	340		16.1	88	86	91	75	
TOT PCT	15.9	40.0	32.4	10.3	1.5		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1960-1972
(OVER-ALL) 1972-1972

DECEMBER

AREA 0028 SEA OF JAPAN N
42.5N 139.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.4	3.4	29.5	37.5	20.5	5.7	.0	16.0	100.0	88
06009	1.2	1.2	18.6	52.3	22.1	4.7	.0	17.1	100.0	86
12015	3.3	.0	26.4	44.0	23.1	3.3	.0	16.0	100.0	91
18021	5.3	4.0	29.3	37.3	20.0	4.0	.0	15.0	100.0	75
TOT	11	7	88	146	73	15	0	16.1		340
PCT	3.2	2.1	25.9	42.9	21.5	4.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.2	1.2	.8	1.7		2.7
NE	1.0	.4	1.1	3.6		6.2
E	.3	.0	.7	1.2		6.3
SE	1.3	.0	.4	2.9		5.5
S	.0	.9	1.0	.7		5.5
SW	1.5	2.2	4.1	2.1		5.1
W	9.5	4.2	6.1	2.2		3.4
NW	22.7	3.9	7.6	5.7		2.9
VAR	.0	.0	.0	.0		.0
CALM	2.7	.0	.4	.4		1.8
TOT OBS	99	29	50	46	224	3.6
TOT PCT	44.2	12.9	22.3	20.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.3	.0	.0	.0	.0	.3	.3	.0	.0	.0	6.9	
NE	.0	.0	.4	1.3	.9	1.5	.4	.0	.1	.0	1.5	
E	.0	.0	.0	.0	.8	.8	.0	.0	.3	.0	.3	
SE	.0	.0	.0	.0	2.0	.9	.0	.0	.0	.4	1.3	
S	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	1.9	
SW	.0	.4	.0	.0	1.1	1.7	1.0	.4	.6	.0	4.7	
W	.0	.0	.4	.0	2.3	2.7	.7	.0	.3	.4	13.2	
NW	.9	.0	.4	.0	5.6	1.1	2.0	.0	.0	.0	29.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.4	.0	.0	.4	.0	2.7	
TOT OBS	5	1	3	3	30	21	10	1	4	2	144	224
TOT PCT	2.2	.4	1.3	1.3	13.4	9.4	4.5	.4	1.8	.9	64.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5
= OR >5000	2.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
= OR >3500	5.9	7.6	7.6	7.6	7.6	7.6	7.6	7.6
= OR >2000	10.1	15.2	16.5	16.5	16.5	16.5	16.5	16.5
= OR >1000	12.7	23.2	27.8	27.8	28.7	28.7	29.1	29.1
= OR >600	12.7	23.6	28.7	28.7	30.0	30.0	30.4	30.4
= OR >300	12.7	24.1	29.5	29.5	30.8	30.8	31.6	31.6
= OR >150	12.7	24.3	30.0	30.0	31.2	31.2	32.1	32.1
= OR > 0	12.7	24.3	30.8	30.8	32.5	32.5	33.0	33.0
TOTAL	30	58	73	73	77	77	83	83

TOTAL NUMBER OF OBS: 237

PCT FREQ NM <5/8: 65.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	31.0	4.6	10.7	8.8	5.4	1.9	8.8	6.5	19.5	261

PERIOD: (PRIMARY) 1960-1972
(OVER-ALL) 1972-1972

DECEMBER

AREA 0028 SEA OF JAPAN N
42.5N 135.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.3	.3	.3	.0	.0	.0	1.2	1.6	.0	.0	3.8		
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3		
	TOT %	.3	.3	.3	.0	.0	.0	1.2	1.9	.0	.0	4.2		
1/2<1	PCP	.7	.7	.3	.0	.0	.0	.5	.5	.0	.0	2.8		
	NO PCP	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.3		
	TOT %	.7	.7	.6	.1	.0	.0	.5	.5	.0	.0	3.1		
1<2	PCP	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3		
	NO PCP	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3		
	TOT %	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.7		
2<5	PCP	.9	.3	.0	.3	.0	.0	.0	.9	.0	.0	2.1		
	NO PCP	1.0	.7	.3	.3	.0	.8	1.0	3.9	.0	.7	8.7		
	TOT %	1.9	1.0	.3	.7	.0	.8	1.0	4.8	.0	.7	10.8		
5<10	PCP	.0	.7	.3	.3	.0	.4	.6	.0	.0	.0	2.4		
	NO PCP	.7	1.6	.9	2.5	.6	1.3	3.9	6.9	.0	.0	18.4		
	TOT %	.7	2.3	1.2	2.9	.6	1.7	4.5	6.9	.0	.0	20.8		
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	6.3	1.5	.5	.8	3.0	6.9	13.4	23.8	.0	2.4	60.4		
	TOT %	6.3	1.5	.5	.8	3.0	6.9	13.4	23.8	.0	2.4	60.4		
TOT OBS														288
TOT PCT														9.5 6.2 3.0 4.4 3.6 9.4 20.9 39.9 .0 3.1 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.3	.3	.0	.0	.0	.0	.6	.6	.0	.0	1.9	
	22+	.0	.0	.3	.0	.0	.0	.9	1.1	.0	.0	1.9	
	TOT %	.3	.3	.3	.0	.0	.0	1.1	1.8	.0	.0	3.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	1.0	
	22+	.3	.3	.3	.0	.0	.0	.5	.5	.0	.0	1.9	
	TOT %	.6	.6	.6	.1	.0	.0	.5	.5	.0	.0	2.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.6	
	TOT %	.0	.3	.0	.0	.2	.1	.3	.0	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
	4-10	.2	.3	.0	.6	.0	.0	.0	.5	.0	.0	1.6	
	11-21	.3	.3	.3	.0	.0	.3	.3	2.2	.0	.0	3.8	
	22+	.9	.3	.0	.0	.0	.4	.6	1.7	.0	.0	3.8	
	TOT %	1.4	1.0	.3	.6	.0	.7	.9	4.4	.0	.6	9.9	
5<10	0-3	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	1.0	
	4-10	.2	.1	.6	1.3	.0	.7	1.7	1.3	.0	.0	5.8	
	11-21	.2	.7	.6	.7	.2	.5	1.0	3.1	.0	.0	7.1	
	22+	.5	.6	.0	.3	.3	.4	1.4	2.5	.0	.0	6.1	
	TOT %	.8	2.1	1.1	2.6	.6	1.6	4.2	6.9	.0	.0	19.9	
10+	0-3	.3	.3	.0	.0	.0	.0	.0	.3	.0	2.6	3.5	
	4-10	2.5	1.0	.2	.6	1.3	3.4	3.8	6.1	.0	.0	19.2	
	11-21	3.0	.3	.4	.1	1.7	3.4	6.8	12.8	.0	.0	28.5	
	22+	.7	.0	.0	.0	.0	.4	3.4	6.7	.0	.0	11.2	
	TOT %	6.6	1.7	.6	.7	3.2	7.1	14.1	23.9	.0	2.6	62.5	
TOT OBS													312
TOT PCT													9.7 6.0 3.0 4.1 4.0 9.5 21.1 39.4 .0 3.2 100.0

PERIOD: (PRIMARY) 1960-1972
(OVER-ALL) 1872-1972

DECEMBER

AREA 0028 SEA OF JAPAN N
42.5N 133.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	100 299	200 599	300 999	400 1999	500 3499	600 4999	700 6499	800 7999	9000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	1.6	.0	1.6	.0	15.9	11.1	3.2	3.2	1.6	1.6	39.7	60.3	63
06009	1.4	1.4	.0	2.7	11.0	5.5	5.5	.0	2.7	1.4	31.5	68.5	73
12015	5.2	.0	3.4	.0	13.8	6.9	3.4	.0	.0	.0	32.8	67.2	58
18021	4.2	.0	.0	2.1	8.3	14.6	4.2	.0	2.1	.0	35.4	64.6	48
TOT	7	1	3	3	30	22	10	2	4	2	84	158	242
PCT	2.9	.4	1.2	1.2	12.4	9.1	4.1	.8	1.7	.8	34.7	65.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	3.6	6.0	1.2	3.6	26.5	59.0	83
06009	4.7	1.2	.0	5.9	16.5	71.8	83
12015	5.8	2.3	2.3	16.3	15.1	58.1	86
18021	2.7	2.7	.0	13.5	20.3	60.8	74
TOT	14	10	3	32	64	205	328
PCT	4.3	3.0	.9	9.8	19.5	62.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND 3+	NM <5/8 AND 5+	TOTAL OBS
00003	1.6	6.3	7.9	31.7	60.3	63
06009	1.4	4.2	9.9	23.9	66.2	71
12015	5.2	10.3	25.9	13.8	60.3	58
18021	4.4	4.4	15.6	22.2	62.2	45
TOT	7	13	34	55	148	237
PCT	3.0	6.3	14.3	23.2	62.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
49/49	.0	.0	2.4	.0	.0	.0	7.3	.0	4	9.8
40/44	.0	.0	.0	.0	.0	.0	7.3	4.9	5	12.2
39/39	.0	.0	.0	.0	4.9	4.9	9.8	9.8	12	29.3
30/34	2.4	.0	2.4	2.4	.0	.0	7.3	.0	7	17.1
29/29	.0	.0	.0	.0	.0	2.4	2.4	.0	2	4.9
20/24	.0	.0	.0	2.4	.0	9.8	.0	.0	5	12.2
19/19	.0	.0	.0	7.3	4.9	.0	.0	2.4	6	14.6
TOTAL	1	0	2	5	5	7	11	10	41	100.0
PCT	2.4	.0	4.9	12.2	12.2	17.1	26.8	24.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
49/49	.0	.0	1.8	.6	.0	4.9	.0	2.4	.0	.0
40/44	2.4	.0	.0	2.4	4.3	.6	1.8	.6	.0	.0
39/39	2.4	.0	1.8	3.0	1.2	1.2	9.1	10.4	.0	.0
30/34	2.4	.0	.0	.0	.0	.0	2.4	12.2	.0	.0
29/29	.0	2.4	.0	.0	.0	.0	.0	2.4	.0	.0
20/24	.0	.0	.0	.0	.0	.6	1.8	9.8	.0	.0
19/19	5.5	.0	.0	.0	.0	2.4	2.4	4.3	.0	.0
TOTAL	12.8	2.4	3.7	6.1	5.5	9.8	17.7	42.1	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	48	47	45	27	10	10	10	26.8	85
06009	47	46	42	27	12	9	9	28.1	82
12015	46	45	41	28	12	6	6	27.7	82
18021	46	45	45	27	10	9	9	28.1	75
TOT	48	46	43	27	12	9	6	27.6	324

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	16.7	.0	33.3	50.0	88	6		
06009	9.9	29.4	11.8	17.6	17.6	17.6	68	17		
12015	.0	10.0	10.0	30.0	30.0	20.0	78	10		
18021	.0	12.5	12.5	12.5	37.5	25.0	80	8		
TOT	1	7	5	7	11	10	76	41		

DECEMBER

PERIOD: (PRIMARY) 1960-1972
(OVER-ALL) 1877-1972

AREA 0028 SEA OF JAPAN N
42.5N 135.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	N FOG	NO FOG
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1	.0	.4
4	.0	.0	.0	.0	.0	.0	.0	.0	.8	.4	3	.0	1.3
2	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	.8	8	.0	3.4
1	.0	.0	.0	.0	.0	.4	.0	.4	.4	.4	4	.0	1.7
0	.0	.0	.0	.0	.0	.8	1.7	.4	.8	.8	11	.0	4.6
-1	.0	.0	.0	.0	.0	.0	.8	.4	.0	.0	3	.0	1.3
-2	.0	.0	.0	.0	.0	.8	2.1	2.1	.8	.0	14	.0	5.9
-3	.0	.0	.0	.0	.0	.0	2.5	.4	.0	.0	7	.0	2.9
-4	.0	.0	.0	.0	.4	1.3	2.1	.0	1.3	.4	13	.0	5.5
-5	.0	.0	.0	.0	.0	2.9	4.6	.0	.4	.0	19	.4	7.6
-6	.0	.0	.0	.0	.0	.4	.0	.8	.4	.4	5	.0	2.1
-7/-8	.0	.0	.0	.8	.8	1.7	2.9	.4	.0	.0	16	.4	6.3
-9/-10	.0	.0	.4	1.3	2.5	2.1	1.3	.4	.0	.0	19	.0	8.0
-11/-13	.0	.0	.4	2.1	1.7	1.3	.0	.0	.0	.0	17	.0	7.1
-14/-16	.0	.4	4.6	2.1	2.1	.4	.4	.0	.0	.0	24	.0	10.1
-17/-19	.0	.4	3.4	2.5	3.8	.0	.4	.0	.0	.0	25	.0	10.5
-20/-22	1.3	3.4	1.7	.4	1.3	.0	.0	.0	.0	.0	19	.0	8.0
-23/-25	2.1	2.5	1.7	.8	.0	.0	.0	.0	.0	.0	17	.0	7.1
-26/-30	1.3	.4	.8	.0	.0	.0	.0	.0	.0	.0	6	.8	1.7
<-30	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	2.9
TOTAL	18	17	31	24	30	48	16	15	9	9	238	4	234
PCT	7.6	7.1	13.0	10.1	12.6	12.6	20.2	6.7	6.3	3.8	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.6	.4	.8	.0	.0	.0	1.8	1.1	.7	.0	.0	.0	.0	1.8
1-2	.0	.6	1.5	.0	.0	.0	2.1	.0	.6	.6	.0	.0	.0	1.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.6	.0	.0	1.3
5-6	.0	.0	.4	.4	.0	.0	.8	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	1.1	1.0	.0	.0	2.1	.0	.0	.6	.0	.6	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.0	3.9	2.0	.0	.0	7.4	1.1	1.3	2.4	1.1	.6	.0	6.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.0	.6	.0	.0	.0	1.5	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.1	.0	.0	.0	1.3
3-4	.0	.0	.8	.6	.0	.0	1.4	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	1.4	1.1	.0	.0	3.5	.0	2.8	.8	.0	.0	.0	3.6

PERIOD: (OVER-ALL) 1963-1972

DECEMBER

AREA 0028 SEA OF JAPAN N
42.9N 139.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	1.0	.0	.0	.0	1.4	.0	1.8	2.9	.0	.0	.0	4.7	.0
3-4	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	1.4	.0	.0	.0	1.4	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	2.0	.0	.0	.0	2.4	.0	2.4	4.5	.7	.0	.0	7.5	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.6	.6	.0	.0	.0	1.1	.0	2.4	.3	.0	.0	.0	2.7	.0
1-2	.0	1.7	4.2	.0	.0	.0	5.9	.0	1.1	4.7	.0	.0	.0	5.9	.0
3-4	.0	.0	2.2	.0	.0	.0	2.2	.0	1.1	9.4	1.7	.0	.0	12.2	.0
5-6	.0	.4	3.1	.8	.0	.0	4.3	.0	.1	6.0	3.2	.6	.0	9.9	.0
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	2.8	4.1	1.1	.0	8.0	.0
8-9	.0	.0	.0	2.4	.6	.0	2.9	.0	.0	.6	1.5	.6	.0	2.7	.0
10-11	.0	.0	.4	1.3	.0	.0	1.7	.0	.0	.7	2.5	.0	.0	3.2	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	10.9	4.5	.6	.0	18.6	.0	4.7	24.4	14.1	2.2	.0	49.5	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.7	7.3	2.2	.0	.0	.0	16.2	.0
1-2	.0	7.3	15.1	.0	.0	.0	22.3	.0
3-4	.0	1.1	16.2	2.8	.0	.0	20.1	.0
5-6	.0	.6	10.1	5.0	.6	.0	16.2	.0
7	.0	.0	5.0	5.0	1.7	.0	11.7	.0
8-9	.0	.0	.6	4.5	1.1	.0	6.1	.0
10-11	.0	.0	1.1	3.9	.0	.0	5.0	.0
12	.0	.0	.0	1.7	.0	.0	1.7	.0
13-16	.0	.0	.0	.6	.0	.0	.6	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	6.7	16.2	50.3	23.5	3.4	.0	100.0	179

PERIOD: (OVER-ALL) 1964-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	14.3	14.0	8.1	2.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	3
6-7	.0	.5	.9	3.2	2.7	.9	2.7	.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	7
8-9	.0	.0	.5	.0	1.4	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
10-11	.0	.5	.0	.0	.0	.0	.0	.5	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	9.0	7.2	4.1	7.2	6.3	4.1	2.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	4
TOTAL	25	30	43	41	28	13	12	4	3	0	0	0	0	0	0	0	0	0	0	221	4
PCT	11.3	22.6	19.5	18.6	12.7	6.8	5.4	1.8	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1929-1972
(OVER-ALL) 1856-1972AREA 0028 SEA OF JAPAN N
42.3N 135.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER FRZN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD	SMOKE	SPRAY	NO SIG
				PCPN		PCPN					PCPN	PCPN PAST HR	HAZE	BLWG DUST	WEA
N	2.4	.3	1.4	.0	5.1	.0	.0	8.7	1.3	.0	6.2	.6	.3	.0	82.9
NE	4.5	.1	2.7	.0	10.4	.0	.0	17.1	2.9	.1	8.8	.9	.5	.0	69.8
E	4.5	.2	3.4	.0	4.3	.0	.0	12.5	3.5	.4	10.1	1.6	1.2	.0	70.8
SE	9.9	.7	1.4	.0	.3	.0	.0	12.2	4.8	.0	10.4	.0	1.0	.0	71.6
S	3.2	.6	1.9	.0	.3	.0	.0	5.5	2.0	.1	12.9	.3	1.0	.0	78.0
SW	1.6	.0	1.8	.0	1.2	.0	.0	4.6	2.0	.0	13.1	.2	1.0	.0	77.0
W	.8	.2	.9	.0	1.5	.0	.0	3.2	.4	.1	8.5	.4	.2	.0	87.3
NW	.8	1.0	.9	.0	2.4	.0	.0	5.1	1.6	.3	7.3	.4	.7	.0	84.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6	.0	1.0	.0	.0	.0	.0	1.5	.3	.0	14.7	.0	.0	.0	83.4
TOT PCT	2.9	.3	1.7	.0	2.9	.0	.0	7.5	1.7	.1	10.5	.5	.6	.0	79.2
TOT OBS:	4142														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER FRZN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD	SMOKE	SPRAY	NO SIG
				PCPN		PCPN					PCPN	PCPN PAST HR	HAZE	BLWG DUST	WEA
0000	2.9	.4	1.7	.0	3.5	.0	.0	8.2	1.3	.0	11.9	.4	.5	.0	77.8
0600	2.6	.4	1.2	.0	2.5	.0	.0	6.6	2.0	.0	10.4	.6	.5	.0	80.1
1200	3.1	.3	2.0	.0	2.9	.0	.0	7.9	1.9	.1	9.8	.3	.7	.0	79.2
1800	2.9	.2	1.7	.0	2.9	.0	.0	7.5	2.0	.3	10.1	.5	.8	.0	78.9
TOT PCT	2.9	.3	1.6	.0	3.0	.0	.0	7.5	1.8	.1	10.6	.5	.6	.0	79.0
TOT OBS:	4280														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-11	11-21	22-33	34-47	48+				00	03	06	09	12	15
N	.6	3.7	5.1	1.9	.3	.0	11.6	13.8	13.1	10.8	10.1	10.5	11.5	13.5	10.8
NE	.8	4.3	4.9	1.5	.4	.0	11.8	13.9	14.0	11.2	14.8	11.6	10.6	10.1	11.1
E	.5	3.0	2.3	.5	.1	.0	6.5	11.6	6.5	5.9	5.6	7.1	6.7	5.6	6.9
SE	.7	2.3	1.6	.3	.0	.0	5.0	10.2	3.7	5.9	4.6	7.0	5.2	5.5	3.6
S	.6	3.9	2.6	.4	.0	.0	7.6	10.8	5.8	9.2	8.8	8.5	8.9	7.3	5.7
SW	1.2	7.1	7.3	.9	.0	.0	16.4	11.6	14.7	17.5	19.5	21.7	15.3	15.9	13.7
W	.7	6.9	7.1	1.7	.6	.0	16.9	12.9	16.3	16.2	17.0	16.5	18.1	17.6	17.5
NW	.7	9.2	9.1	4.2	1.2	.0	20.3	13.8	21.1	21.2	16.3	16.0	19.6	22.4	23.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8						3.8	.0	4.8	2.1	3.3	1.0	4.1	2.2	7.0
TOT OBS							5218	13.0	921	578	835	371	897	431	847
TOT PCT	9.6	36.3	40.0	11.4	2.6	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12
N	2.4	4.7	3.6	.9	.0	11.6	13.8	12.1	10.2	12.1	11.9	
NE	2.6	5.2	3.2	.7	.2	11.8	13.9	12.9	13.7	10.4	10.3	
E	1.9	3.0	1.3	.3	.0	6.5	11.6	6.5	6.2	6.3	7.0	
SE	1.9	2.4	.6	.1	.0	5.0	10.2	4.5	5.2	5.3	4.9	
S	2.4	3.8	1.1	.2	.0	7.6	10.8	7.0	8.6	8.6	6.3	
SW	4.2	8.9	3.2	.2	.0	16.4	11.6	15.9	20.1	15.6	14.2	
W	3.5	8.2	4.2	.8	.2	16.9	12.9	16.3	16.9	17.7	17.0	
NW	2.5	8.5	6.8	2.3	.2	20.3	13.8	21.0	16.6	20.5	23.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.8					3.8	.0	3.8	2.7	3.4	3.4	
TOT OBS						5218	13.0	1499	1206	1328	1183	
TOT PCT	25.2	44.7	23.9	5.5	.7	100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1856-1972

ANNUAL

AREA 0028 SEA OF JAPAN N
42.3N 133.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	3.8	5.1	37.8	39.6	11.2	2.6	.0	12.9	100.0	1499
0600Z	2.7	5.3	35.3	40.2	13.5	3.1	.0	13.5	100.0	1206
1200Z	3.4	6.5	36.7	39.4	11.3	2.7	.0	12.9	100.0	1328
1800Z	5.4	6.5	35.2	41.3	9.6	2.1	.0	12.4	100.0	1189
TOT								13.0		5218
PCT	3.8	5.8	36.3	40.0	11.4	2.6	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.1	1.4	2.8	3.8		4.7
NE	2.1	.9	3.1	7.0		5.9
E	.9	.4	1.6	2.9		3.7
SE	1.1	.5	.9	2.4		3.4
S	2.2	.6	1.6	2.5		3.0
SW	6.0	1.6	3.0	5.7		4.2
W	9.5	1.9	3.1	2.5		3.2
NW	11.6	2.0	3.4	2.9		3.4
VAR	.0	.0	.0	.0		.0
CALM	2.0	.2	.5	1.6		2.9
TOT OBS					2836	4.2
TOT PCT	39.4	9.5	19.9	31.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.8	.0	.1	.1	1.7	1.9	.9	.1	.3	.*	6.2	
NE	1.5	.*	.2	.2	2.0	3.1	1.4	.3	.3	.2	3.8	
E	.7	.0	.0	.1	1.2	1.1	.5	.*	.2	.1	1.8	
SE	.5	.*	.*	.2	.6	.8	.2	.1	.1	.2	2.2	
S	.6	.0	.1	.4	.7	.7	.4	.1	.3	.2	3.5	
SW	2.2	.1	.1	.3	1.8	1.7	.6	.2	.3	.2	8.7	
W	.8	.0	.1	.1	1.1	1.4	.8	.*	.2	.2	12.3	
NW	.5	.0	.*	.3	1.8	1.5	.8	.*	.1	.2	14.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	.0	.1	.1	.2	.4	.1	.1	.1	.*	2.3	
TOT OBS											2836	
TOT PCT	8.5	.1	.7	1.8	11.0	12.7	5.7	.9	1.9	1.4	55.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.4	3.0	3.3	3.3	3.3	3.3	3.3	3.3
= OR >5000	2.9	3.9	4.2	4.2	4.2	4.3	4.3	4.3
= OR >3500	6.7	9.3	9.9	10.0	10.0	10.0	10.1	10.1
= OR >2000	12.5	20.0	21.9	22.2	22.7	22.7	22.8	22.8
= OR >1000	16.0	27.6	31.6	32.3	33.1	33.3	33.5	33.5
= OR >600	16.3	28.3	33.1	34.0	34.8	35.1	35.3	35.4
= OR >300	16.4	28.5	33.5	34.6	35.5	35.7	36.0	36.1
= OR >150	16.4	28.6	33.7	34.7	35.6	35.9	36.1	36.2
= OR > 0	16.4	28.6	34.1	35.4	36.6	39.0	43.9	44.9

TOTAL NUMBER OF OBS: 2861

PCT FREQ NM <5/8: 55.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
29.4	5.5	9.2	5.1	4.0	3.7	7.2	9.9	21.8	8.1	3154

PERIOD: (PRIMARY) 1925-1972
(OVER-ALL) 1856-1972

ANNUAL

AREA 0028 SEA OF JAPAN N
42.3N 135.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.2	.1	*	.1	*	.1	.3	.0	.0	1.1	
	NO PCP	.4	1.1	.6	.4	.7	2.3	.7	.3	.0	.7	7.1	
	TOT %	.6	1.3	.7	.4	.7	2.4	.8	.6	.0	.7	8.2	
1/2<1	PCP	.2	.3	.1	.1	.1	.1	*	.2	.0	*	1.2	
	NO PCP	.1	.1	.1	*	*	.2	*	*	.0	*	.5	
	TOT %	.3	.4	.2	.1	.1	.3	.1	.2	.0	.1	1.7	
1<2	PCP	.2	.1	.2	.1	.1	.1	.1	.1	.0	.0	.8	
	NO PCP	.1	.1	.1	.1	.1	.2	.1	.1	.0	*	.8	
	TOT %	.2	.2	.2	.1	.2	.3	.2	.2	.0	*	1.7	
2<5	PCP	.3	.4	.2	.4	.1	.1	.1	.2	.0	*	2.0	
	NO PCP	.4	.7	.5	.4	.5	.9	.7	1.0	.0	.3	5.3	
	TOT %	.7	1.1	.7	.7	.6	1.0	.8	1.2	.0	.4	7.3	
5<10	PCP	.3	.6	.2	.1	.2	.3	.2	.4	.0	*	2.2	
	NO PCP	2.0	2.8	1.6	1.5	1.9	3.2	3.9	4.3	.0	.6	22.7	
	TOT %	3.1	3.4	1.8	1.6	2.2	3.4	4.1	4.6	.0	.7	24.9	
10+	PCP	*	.1	.1	*	*	.1	*	.0	.0	.0	.4	
	NO PCP	7.0	5.9	2.9	2.0	3.6	8.9	10.9	13.0	.0	1.6	55.8	
	TOT %	7.0	6.0	3.0	2.1	3.6	9.0	10.9	13.0	.0	1.6	56.2	
TOT OBS													
TOT PCT													
		11.0	12.5	6.7	5.0	7.4	16.3	16.9	19.8	.0	3.4	100.0	4116

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	*	.1	.1	.2	.1	*	.0	.8	1.6	
	4-10	.3	.5	.3	.1	.4	1.0	.4	.2	.0		3.1	
	11-21	.1	.4	.2	.1	.2	1.1	.3	.1	.0		2.6	
	22+	.1	.2	.1	*	.1	*	.1	.3	.0		.9	
	TOT %	.6	1.3	.7	.4	.7	2.3	.8	.7	.0	.8	8.2	
1/2<1	0-3	*	*	*	.0	*	.1	*	.0	.0	*	.2	
	4-10	.1	.1	.1	.1	.1	.1	*	*	.0		.5	
	11-21	.1	.1	*	*	*	.1	.0	*	.0		.5	
	22+	.1	.1	*	*	*	.1	*	.1	.0		.5	
	TOT %	.3	.4	.2	.1	.1	.3	.1	.2	.0	*	1.7	
1<2	0-3	.0	.0	*	*	*	.1	.0	.0	.0	*	.2	
	4-10	.1	.1	.2	.1	.1	.1	.1	.1	.0		.8	
	11-21	.1	.1	.1	.1	.1	.2	*	*	.0		.7	
	22+	.1	.2	*	*	*	*	.1	.1	.0		.6	
	TOT %	.3	.3	.4	.2	.3	.4	.2	.2	.0	*	2.3	
2<5	0-3	*	*	*	.1	*	.1	*	*	.0	.4	.7	
	4-10	.1	.3	.2	.4	.3	.5	.2	.3	.0		2.3	
	11-21	.4	.6	.4	.3	.2	.5	.6	.5	.0		3.5	
	22+	.2	.3	.1	*	.1	.1	.2	.5	.0		1.5	
	TOT %	.8	1.1	.7	.8	.6	1.2	1.0	1.3	.0	.4	7.9	
5<10	0-3	.1	.2	*	.2	.1	.1	.2	.1	.0	.6	1.6	
	4-10	.8	1.0	.8	.7	1.0	1.5	1.6	1.1	.0		8.5	
	11-21	1.3	1.4	.7	.5	.9	1.5	1.6	1.0	.0		9.6	
	22+	.7	.6	.1	.2	.1	.2	.4	1.4	.0		3.6	
	TOT %	2.9	3.1	1.7	1.5	2.1	3.3	3.8	4.3	.0	.6	23.5	
10+	0-3	.3	.4	.4	.3	.3	.5	.3	.4	.0	1.6	4.7	
	4-10	2.5	2.5	1.4	.9	2.0	3.9	4.3	3.1	.0		20.6	
	11-21	3.1	2.4	.9	.7	1.3	4.3	4.8	6.5	.0		24.1	
	22+	1.0	.6	.2	*	.1	.4	1.5	3.1	.0		7.0	
	TOT %	6.9	5.9	2.9	2.0	3.7	9.0	11.0	13.2	.0	1.6	56.3	
TOT OBS													
TOT PCT													
		11.8	12.1	6.5	5.0	7.5	16.6	17.0	19.9	.0	3.5	100.0	4575

PERIOD: (PRIMARY) 1929-1972
(OVER-ALL) 1856-1972

ANNUAL

AREA 0028 SEA OF JAPAN N
42.3N 139.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
(GMT)	149	299	399	999	1999	3499	4999	6499	7999				
00003	8.7	.0	1.0	2.2	12.4	14.5	6.3	.8	2.3	1.5	49.7	50.3	864
06009	6.5	.3	.6	1.8	11.8	12.1	7.9	1.2	2.1	1.7	46.1	53.9	774
12015	8.8	.0	.6	1.5	9.2	11.5	4.5	.6	1.6	1.5	39.6	60.4	703
18021	10.6	.1	.5	1.5	8.3	11.6	3.3	.9	1.1	1.1	39.0	61.0	691
TOT													2992
PCT	8.6	.1	.7	1.8	10.6	12.6	5.6	.9	1.9	1.4	44.1	55.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL
(GMT)							OBS
00003	8.4	2.5	2.2	6.2	19.8	60.8	1294
06009	7.5	1.2	2.3	7.1	19.2	62.7	1157
12015	8.3	1.7	2.9	9.5	28.9	48.8	1174
18021	8.9	1.6	2.1	9.3	26.5	51.6	1088
TOT							4713
PCT	8.3	1.8	2.4	7.9	23.4	56.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150 <50YD	<600 <1	<1000 <3	1000+ AND 5+	NM <3/8 AND 5+	TOTAL
(GMT)						OBS
00003	9.0	12.2	20.2	31.9	47.9	836
06009	6.3	8.3	16.2	32.0	51.8	752
12015	9.2	11.4	22.8	22.6	54.6	698
18021	11.1	12.5	21.3	21.8	56.9	613
TOT						2861
PCT	8.9	11.2	20.0	27.6	52.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
80/84	.0	.0	.0	.0	.0	.2	.0	.0	.2	
75/79	.0	.0	.0	.1	.1	.2	.6	.5	1.4	
70/74	.0	.0	.0	.1	.1	.2	1.0	2.7	4.1	
65/69	.0	.0	.1	.0	.2	1.7	3.1	5.1	10.1	
60/64	.0	.1	.1	.2	.5	1.2	2.2	5.2	9.5	
55/59	.0	.0	.0	1.1	.2	1.7	4.0	4.1	11.2	
50/54	.0	.0	.0	.8	.5	1.0	3.8	2.1	8.2	
45/49	.0	.0	.2	.2	.8	.8	3.0	3.0	7.9	
40/44	.0	.0	.0	.4	.9	1.8	3.0	3.0	9.1	
35/39	.0	.0	.0	.7	2.1	2.0	4.6	4.4	13.7	
30/34	.2	.0	.5	.5	2.6	1.3	.7	3.1	8.9	
25/29	.0	.0	.1	1.6	1.1	2.4	.7	.3	6.3	
20/24	.0	.0	.0	.6	1.4	1.2	.8	.0	4.1	
15/19	.0	.0	.0	2.4	1.4	.9	.2	.4	5.3	
TOTAL									883	100.0
PCT	.2	.1	1.0	8.7	11.7	16.6	27.7	34.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.2	.0	.0	.0
75/79	.2	.1	.2	.2	.4	.1	.0	.0	.0
70/74	.3	.2	.5	1.2	.7	.6	.3	.0	.0
65/69	.9	1.7	1.6	1.2	1.0	1.9	1.1	.8	.1
60/64	.8	1.7	.9	.7	.8	2.3	1.0	.8	.5
55/59	1.6	2.6	1.8	.6	.5	2.0	1.2	.8	.2
50/54	2.0	.8	.8	.7	.8	1.7	.5	.0	.0
45/49	.7	1.5	.3	.4	.7	2.5	.9	.7	.2
40/44	.9	.3	.4	.6	1.7	1.4	2.5	1.3	.1
35/39	1.1	1.6	1.1	1.9	1.1	1.9	2.7	2.3	.0
30/34	1.2	1.9	1.1	.1	1.0	.6	.8	2.2	.0
25/29	1.0	.9	.0	.0	.3	1.5	2.6	.0	.0
20/24	.4	.3	.0	.0	.1	.5	3.0	.0	.0
15/19	.8	.0	.0	.0	.2	.2	4.1	.0	.0
TOTAL	11.8	13.6	8.6	7.6	8.5	15.0	14.4	19.3	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	83	60	56	46	34	30	9	49.9	1495
06009	82	60	57	46	34	32	9	50.5	1197
12015	82	58	55	45	35	29	6	48.1	1325
18021	81	59	54	44	33	29	9	47.7	1190
TOT	83	61	56	45	34	30	6	49.1	5207

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	8.3	10.4	13.0	29.5	38.9	84	235		
06009	.5	10.8	16.1	17.0	26.7	29.0	81	254		
12015	.0	7.4	8.8	16.7	29.9	37.2	85	208		
18021	.0	10.6	11.3	17.6	25.3	35.2	84	194		
TOT	1	65	84	126	250	365	83	891		

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1856-1972

ANNUAL

AREA 0028 SEA OF JAPAN N
42.3N 135.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT FOG	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	6	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2	.2	.1	.0	.0	.0	.0	26	.2	.4
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.3	.1	.2	.2	.1	.1	.0	.0	.0	50	.2	1.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	.2	.2	.2	.2	.1	.0	.0	.0	63	.1	1.3
7/8	.0	.0	.0	.0	.0	.0	.0	.1	.3	.5	.3	.2	.3	.2	.2	.2	.1	.0	.0	103	.4	2.0
6	.0	.0	.0	.0	.0	.0	.0	.2	.1	.1	.2	.1	.1	.2	.1	.1	.0	.0	.0	48	.2	.9
5	.0	.0	.0	.0	.0	.0	.1	.4	.6	.9	.4	.4	.5	.6	.5	.3	.1	.1	.0	204	.7	4.0
4	.0	.0	.0	.0	.0	.0	.2	.7	.8	.8	.5	.6	.4	.8	.7	.4	.2	.0	.0	263	.9	5.1
3	.0	.0	.0	.0	.0	.0	.1	.3	.2	.2	.2	.2	.3	.4	.4	.1	.1	.0	.0	110	.5	1.9
2	.0	.0	.0	.0	.0	.2	1.0	1.0	.9	1.1	.5	.8	1.0	1.0	1.4	.9	.4	.2	.0	457	1.6	8.7
1	.0	.0	.0	.0	.0	.1	1.1	.5	.1	.3	.3	.2	.4	.4	.4	.2	.1	.0	.0	163	.7	3.3
0	.0	.0	.0	.0	.0	.6	1.6	1.0	.8	.9	.8	1.4	2.0	1.2	.6	.2	.0	.0	.0	521	1.8	10.2
-1	.0	.0	.0	.0	.0	.2	.6	.2	.2	.3	.2	.2	.6	.6	.2	.1	.0	.0	.0	144	.4	2.9
-2	.0	.0	.0	.0	.2	.8	1.4	.8	.4	.9	.6	.9	1.1	1.5	.8	.2	.1	.0	.0	412	1.1	8.6
-3	.0	.0	.0	.0	.1	.2	.6	.2	.1	.1	.1	.2	.4	.2	.2	*	*	.0	.0	101	.1	2.3
-4	.0	.0	.0	.0	.5	.7	.8	.5	.4	.6	.4	.5	.7	1.2	.3	*	*	.0	.0	265	.6	6.0
-5	.0	.0	.0	.0	.7	.9	.7	.2	.5	.4	.3	.5	.4	.4	.1	*	.0	.0	.0	183	.4	4.6
-6	.0	.0	.0	.0	.2	.3	.2	.2	.1	.1	*	.1	.1	*	*	.0	.0	.0	.0	40	*	1.3
-7/-8	.0	.0	.0	.2	1.9	.8	.5	.4	.3	.3	.5	.3	.3	.1	*	*	.0	.0	.0	182	.3	5.3
-9/-10	.0	.0	.2	.8	1.7	.8	.7	.3	.2	.3	.4	.1	*	*	*	.0	.0	.0	.0	154	.1	5.4
-11/-13	.0	.0	.6	1.4	1.4	.3	.6	.5	.1	.3	.2	*	*	*	.0	.0	.0	.0	.0	157	.1	5.4
-14/-16	.0	.3	1.7	.6	.6	.2	.2	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	.0	3.8
-17/-19	.1	.4	.5	.3	.4	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	.0	2.0
-20/-22	.3	.6	.2	.1	.2	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	.0	1.6
-23/-25	.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	.8
-26/-30	.2	*	.1	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	.1	.3
<-30	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.0	.3
TOTAL																				3863		
PCT	1.0	1.7	3.6	3.6	7.9	6.0	10.6	7.3	6.2	8.6	6.5	6.7	8.2	9.9	6.9	3.4	1.5	.3	.1	100.0	10.5	89.5

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.1	.0	.0	.0	1.3	<1	.2	1.0	.1	.0	.0	.0	1.4
1-2	*	1.2	1.1	.0	.0	.0	2.3	1-2	*	1.4	2.0	.0	.0	.0	3.5
3-4	.0	.5	1.4	.3	.0	.0	2.2	3-4	.0	.3	2.6	.2	.0	.0	3.1
5-6	.0	.1	1.2	.4	.0	.0	1.6	5-6	.0	.0	1.6	.3	.0	.0	2.0
7	.0	.0	.5	1.0	.0	.0	1.5	7	.0	.0	.5	.5	*	.0	1.0
8-9	.0	.1	.3	.2	.0	.0	.6	8-9	.0	*	.2	.8	.1	.0	1.1
10-11	.0	.0	.2	*	.0	.0	.3	10-11	.0	.0	.1	.3	.1	.0	.5
12	.0	.0	*	.2	.2	.0	.4	12	.0	.0	.0	.1	.1	.0	.1
13-16	.0	.0	.2	.3	.1	.0	.5	13-16	.0	.0	*	.2	.1	.0	.4
17-19	.0	.0	.0	.1	.0	.0	.1	17-19	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	.1	.0	.1	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.8	5.0	2.6	.3	.0	10.9	TOT PCT	.5	3.3	7.4	2.4	.5	.0	14.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.1	.0	.0	.0	1.6	<1	.2	1.0	.1	.0	.0	.0	1.4
1-2	*	.9	1.1	.0	.0	.0	2.0	1-2	*	.8	.8	.0	.0	.0	1.6
3-4	.0	.2	.9	.1	.0	.0	1.2	3-4	.0	.2	.7	.2	.0	.0	1.1
5-6	.0	.0	.4	.2	.0	.0	.7	5-6	.0	.0	.4	*	*	.0	.5
7	.0	.0	.1	.2	.0	.0	.2	7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.1	*	.0	.1	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	*	.1	*	.0	.1	10-11	.0	.0	.1	*	.0	.0	.1
12	.0	.0	.0	*	.0	.0	*	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.2	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.3	2.7	.9	.1	.0	6.2	TOT PCT	.2	2.0	2.2	.3	*	.0	4.8

PERIOD: (OVER-ALL) 1963-1972

ANNUAL

AREA 0028 SEA OF JAPAN N
42.3N 135.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	1.0	.1	.0	.0	.0		1.3	.3	1.3	.1	.0	.0	.0		1.7
1-2	.0	1.2	1.1	.0	.0	.0		2.3	.0	2.6	3.7	.0	.0	.0		6.3
3-4	.0	.5	1.1	.1	.0	.0		1.8	.0	.7	4.0	.2	.0	.0		4.9
5-6	.0	.1	.4	.0	.0	.0		.5	.0	.2	1.6	.4	.0	.0		2.2
7	.0	.0	.1	.1	.0	.0		.2	.0	.1	.5	.3	.0	.0		1.0
8-9	.0	.0	.0	.1	.0	.0		.1	.0	.0	.1	.0	.0	.0		.2
10-11	.0	.0	.0	.0	.0	.0		.1	.0	.0	.1	.0	.0	.0		.2
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.1	.0	.0		.1
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	2.8	2.8	.4	.1	.0		6.4	.3	4.9	10.2	1.1	.0	.0		16.3

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	1.4	.2	.0	.0	.0		1.7	.2	.9	.1	.0	.0	.0		1.2	
1-2	.0	1.9	3.1	.0	.0	.0		5.0	.0	1.2	2.2	.0	.0	.0		3.4	
3-4	.0	.7	2.7	.3	.0	.0		3.6	.0	.4	3.0	1.0	.0	.0		4.4	
5-6	.0	.3	1.6	.5	.1	.0		2.5	.0	.2	2.2	1.3	.1	.0		3.8	
7	.0	.0	.6	.7	.2	.0		1.4	.0	.1	1.5	1.0	.4	.0		3.0	
8-9	.0	.0	.2	.4	.1	.0		.7	.0	.0	.3	.7	.1	.0		1.0	
10-11	.0	.0	.2	.3	.0	.0		.5	.0	.0	.3	.6	.2	.0		1.1	
12	.0	.0	.0	.2	.1	.0		.2	.0	.0	.1	.3	.1	.0		.5	
13-16	.0	.0	.0	.1	.1	.0		.2	.0	.0	.0	.5	.1	.0		.6	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0		.2	
20-22	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.3	.0		.3	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.1	4.2	8.7	2.4	.5	.0		16.0	.2	2.9	9.6	5.5	1.3	.0		19.5	94.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.4	9.4	1.2	.0	.0	.0	18.1	
1-2	.2	11.3	15.0	.0	.0	.0	26.5	
3-4	.1	3.3	16.5	2.6	.0	.0	22.4	
5-6	.0	.8	9.4	3.2	.3	.0	13.7	
7	.0	.2	3.9	3.8	.6	.0	8.5	
8-9	.0	.1	1.1	2.4	.3	.0	3.8	
10-11	.0	.0	1.1	1.4	.3	.0	2.8	
12	.0	.0	.1	.9	.4	.0	1.3	
13-16	.0	.0	.3	1.3	.5	.0	2.1	
17-19	.0	.0	.1	.1	.1	.0	.3	
20-22	.0	.0	.1	.0	.3	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.7	25.2	48.6	15.6	2.9	.0	100.0	2201

PERIOD: (OVER-ALL) 1952-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.2	12.7	12.5	6.3	2.1	.6	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1002	3
6-7	.1	1.2	3.1	3.0	3.2	1.6	.9	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	368	6
8-9	.0	.3	.3	.5	1.7	.7	.5	.4	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	121	8
10-11	.0	.0	.1	.0	.3	.2	.2	.2	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	42	10
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	14
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	17
INDET	7.7	12.0	8.3	5.5	3.2	1.6	1.2	.4	.8	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	1108	3
TOTAL																				2693	4
PCT	10.0	26.3	24.4	15.3	10.5	4.7	3.1	1.8	2.7	.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: PRIMARY 1923-1972
(OVER-ALL) 1856-1972

TABLE 20

AREA 0028 SEA OF JAPAN N
42.3N 135.4E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.8	.9	.0	.0	.0	10	.2
75/76	.0	.0	.0	.0	.0	.0	.2	2.7	.6	.0	.0	.0	20	.4
73/74	.0	.0	.0	.0	.0	.0	1.4	4.5	1.7	.0	.0	.0	44	.9
71/72	.0	.0	.0	.0	.0	.0	2.0	10.8	3.9	.0	.0	.0	97	2.0
69/70	.0	.0	.0	.0	.0	.0	4.4	15.8	8.9	.0	.0	.0	168	3.4
67/68	.0	.0	.0	.0	.0	.0	4.4	13.9	14.0	.2	.0	.0	185	3.7
65/66	.0	.0	.0	.0	.0	.6	8.0	14.6	17.7	.6	.0	.0	234	4.7
63/64	.0	.0	.0	.0	.0	3.2	22.2	22.2	31.3	8.5	.7	.0	486	9.8
61/62	.0	.0	.0	.0	.0	4.2	13.7	6.0	10.2	13.2	1.0	.0	253	5.2
59/60	.0	.0	.0	.0	.2	6.2	14.9	5.8	4.3	14.7	1.7	.0	250	5.1
57/58	.0	.0	.0	.0	.2	12.8	12.2	1.2	3.7	14.1	3.1	.0	240	4.9
55/56	.0	.0	.0	.3	1.6	11.1	7.3	1.5	1.5	16.5	3.5	.3	213	4.3
53/54	.0	.0	.0	.3	.9	13.0	6.0	.3	.6	12.2	6.6	1.0	192	3.9
51/52	.0	.0	.0	1.4	4.1	11.1	1.8	.0	.4	6.0	5.9	.7	141	2.9
49/50	.0	.0	.0	.6	9.4	12.1	.7	.0	.4	6.6	14.9	.7	189	3.8
47/48	.5	.0	.8	.8	10.8	9.8	.5	.0	.0	3.8	9.0	1.6	138	3.2
45/46	1.9	1.8	1.1	3.3	27.8	12.3	.4	.0	.0	2.8	18.0	11.1	312	6.3
43/44	1.9	1.8	1.1	3.1	20.0	3.4	.0	.0	.0	.6	9.7	8.5	186	3.8
41/42	2.4	2.6	3.0	9.4	11.3	.2	.0	.0	.0	.0	10.0	11.4	171	3.5
39/40	10.0	3.3	5.4	15.3	7.6	.0	.0	.0	.0	.0	6.6	13.7	199	4.0
37/38	16.7	8.1	11.1	27.8	4.1	.0	.0	.0	.0	.0	5.2	15.4	278	5.6
35/36	23.8	22.7	20.7	21.7	1.4	.0	.0	.0	.0	.0	2.1	19.9	339	6.9
33/34	25.2	32.2	23.1	11.1	.5	.0	.0	.0	.0	.0	1.4	6.2	291	5.9
31/32	8.6	13.9	19.6	5.0	.0	.0	.0	.0	.0	.0	.7	7.2	170	3.4
29/30	7.1	9.9	12.2	.0	.0	.0	.0	.0	.0	.0	.0	2.0	93	1.9
27/28	1.9	3.7	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.3	22	.4
25/26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
23/24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
21/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
19/20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
17/18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
15/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
13/14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
11/12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
5/6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
3/4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	210	273	368	360	435	530	564	603	537	468	289	306	4943	100.0
MEAN	35.3	34.3	34.3	37.8	44.7	52.7	61.1	66.5	64.8	56.3	46.5	38.8	47.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MC	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1017	1018	1013	1019	1016	1016	1017	1020	1016	177
FEB	1019	1017	1019	1019	1021	1015	1021	1017	1019	258
MAR	1017	1013	1015	1016	1016	1016	1017	1015	1016	344
APR	1017	1014	1016	1012	1016	1011	1017	1011	1015	311
MAY	1013	1011	1014	1012	1013	1010	1012	1012	1012	397
JUN	1010	1009	1010	1010	1009	1010	1009	1011	1009	472
JUL	1008	1008	1007	1007	1009	1009	1008	1007	1008	509
AUG	1011	1012	1010	1010	1010	1011	1010	1011	1011	545
SEP	1013	1013	1013	1012	1013	1012	1012	1013	1013	500
OCT	1020	1016	1019	1015	1020	1015	1019	1016	1018	392
NOV	1019	1016	1018	1016	1020	1018	1019	1018	1019	303
DEC	1019	1014	1018	1016	1019	1009	1018	1012	1018	295
ANN	1015	1013	1014	1014	1015	1013	1015	1014	1014	4503
OBS	820	409	731	368	775	323	749	328		

PERCENTILES

MC	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	994	994	998	1010	1017	1023	1029	1034	1036
FEB	996	998	1007	1015	1019	1024	1030	1035	1037
MAR	995	997	1004	1010	1016	1022	1027	1030	1031
APR	997	998	1004	1010	1016	1020	1027	1030	1032
MAY	997	997	1002	1009	1012	1016	1025	1027	1030
JUN	994	996	1000	1006	1009	1013	1018	1024	1027
JUL	990	992	998	1004	1008	1012	1017	1022	1023
AUG	989	992	1000	1007	1011	1014	1018	1025	1026
SEP	991	996	1002	1008	1014	1018	1022	1024	1027
OCT	993	998	1006	1014	1019	1023	1028	1031	1033
NOV	995	998	1006	1015	1019	1023	1028	1031	1036
DEC	997	998	1003	1014	1019	1024	1028	1031	1033

